| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| L1 | 0 | 7,7-diphenyl-2,4,6-heptatrienoic | USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |
| L2 | 0 | (Histone adj deacetylase) and (("562/495").CCLS.) | USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |
| L3 | 0 | ("l7andl17").PN. | USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |
| L4 | 0 | heptatrieno$ and (("562/491").CCLS.) | USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |
| L5 | 0 | heptatrien$ and (("562/491").CCLS.) | USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |
| L6 | 0 | (dodecen$ and insecticid$) and "2005271" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/19 12:09 |
| L7 | 279 | (514/559).CCLS. | USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |
| L8 | 885 | (514/562).CCLS. | USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |
| L9 | 414 | (514/564).CCLS. | USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |
| L10 | 716 | (514/570).CCLS. | USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |
| L11 | 179 | (514/571).CCLS. | USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |
| L12 | 2 | "53101527".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/19 12:09 |
| L13 | 456 | Histone adj deacetylase | USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |

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|---|---|---|---|---|---|---|
| L14 | 5855 | hydroxamic | USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |
| L15 | 3694 | histone | USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |
| L16 | 1 | heptatrienoic and histone | USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |
| L17 | 1 | 7-phenyl-2,4,6-heptatrienoic | USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |
| L18 | 72 | heptatrieno$ | USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |
| L19 | 1 | histone and heptatrieno$ | USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |
| L20 | 556 | heptatrien$ | USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |
| L21 | 38 | (Histone adj deacetylase) and hydroxamic | USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |
| L22 | 3 | "2001038322".pn. | USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |
| L23 | 3 | "9814424".pn. | USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |
| L24 | 239 | (562/491).CCLS. | USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |
| L25 | 48 | heptatrienoic | USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |
| L26 | 3 | 7-phenyl-2,4,6-heptatrieno$ | USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |
| L27 | 2 | "5037813".pn. | USPAT; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |
| L28 | 322 | (562/495).CCLS. | USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:09 |

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| L29 | 2 | "4371516".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/19 12:09 |
| L30 | 2 | "4371516".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/19 12:09 |
| L31 | 15073 | dodecen$ | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/19 12:09 |
| L32 | 70673 | insecticid$ | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/19 12:09 |
| L33 | 436 | dodecen$ and insecticid$ | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/19 12:09 |
| L34 | 16 | "2005271" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/19 12:09 |
| L35 | 2 | "5747537".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/19 12:09 |
| L36 | 3 | "9929640".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/19 12:09 |
| L37 | 2 | "53101527".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/19 12:09 |
| L38 | 2 | "9827162".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/19 12:09 |
| L39 | 2 | "4810299".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/19 12:09 |
| L40 | 2 | "4621099".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/19 12:09 |
| L41 | 1 | "4621099".URPN. | USPAT | OR | ON | 2004/11/19 12:09 |

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|---|---|---|---|---|---|---|
| L42 | 2 | "5459149".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/19 12:09 |
| L43 | 5 | "2849466" .pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/19 12:09 |

| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|---|---|---|---|---|---|---|---|
| 1 | BRS | L1 | 0 | 7,7-diphenyl-2,4,6-heptatrienoic | USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 2 | BRS | L2 | 0 | (Histone adj deacetylase) and (("562/495").CCLS.) | USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 3 | IS&R | L3 | 0 | ("17and117").PN. | USPAT; USOCR; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 4 | BRS | L4 | 0 | heptatrieno$ and (("562/491").CCLS.) | USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 5 | BRS | L5 | 0 | heptatrien$ and (("562/491").CCLS.) | USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 6 | BRS | L6 | 0 | (dodecen$ and insecticid$) and "2005271" | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 7 | IS&R | L7 | 279 | (514/559).CCLS. | USPAT; USOCR; EPO; JPO; DERWENT | 2004/11/19 12:09 | |

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|---|---|---|---|---|---|---|---|
| 8 | IS&R | L8 | 885 | (514/562).CCLS. | USPAT; USOCR; EPO; JPO; DERWENT | 2004/11/19 12:09 | |

| | Error Definition | Errors |
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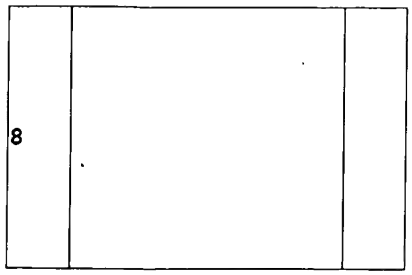
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| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|---|---|---|---|---|---|---|---|
| 9 | IS&R | L9 | 414 | (514/564).CCLS. | USPAT; USOCR; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 10 | IS&R | L10 | 716 | (514/570).CCLS. | USPAT; USOCR; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 11 | IS&R | L11 | 179 | (514/571).CCLS. | USPAT; USOCR; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 12 | BRS | L16 | 1 | heptatrienoic and histone | USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 13 | BRS | L17 | 1 | 7-phenyl-2,4,6-heptatrienoic | USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 14 | BRS | L19 | 1 | histone and heptatrieno$ | USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 15 | BRS | L41 | 1 | "4621099".URPN. | USPAT | 2004/11/19 12:09 | |
| 16 | BRS | L12 | 2 | "53101527".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |

| | Error Definition | Errors |
|---|---|---|
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | | |
| 14 | | |
| 15 | | |
| 16 | | |

| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|---|---|---|---|---|---|---|---|
| 17 | BRS | L18 | 72 | heptatrieno$ | USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 18 | BRS | L21 | 38 | (Histone adj deacetylase) and hydroxamic | USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 19 | BRS | L22 | 3 | "2001038322".pn. | USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 20 | BRS | L23 | 3 | "9814424".pn. | USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 21 | BRS | L25 | 48 | heptatrienoic | USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 22 | BRS | L26 | 3 | 7-phenyl-2,4,6-heptatrieno$ | USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 23 | BRS | L27 | 2 | "5037813".pn. | USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 24 | BRS | L29 | 2 | "4371516".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |

| | Error Definition | Errors |
|---|---|---|
| 17 | | |
| 18 | | |
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| 23 | | |
| 24 | | |

| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|---|---|---|---|---|---|---|---|
| 25 | BRS | L30 | 2 | "4371516".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 26 | BRS | L34 | 16 | "2005271" | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 27 | BRS | L35 | 2 | "5747537".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 28 | BRS | L36 | 3 | "9929640".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 29 | BRS | L37 | 2 | "53101527".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 30 | BRS | L38 | 2 | "9827162".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |

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|---|---|---|---|---|---|---|---|
| 31 | BRS | L39 | 2 | "4810299".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |

| | Error Definition | Errors |
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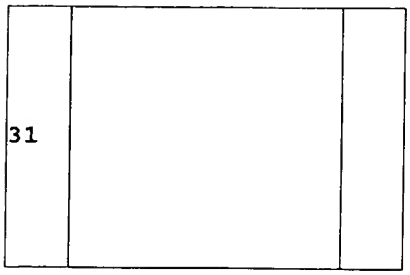
| 26 | | |
| 27 | | |
| 28 | | |
| 29 | | |
| 30 | | |


31

| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
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| 32 | BRS | L40 | 2 | "4621099".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 33 | BRS | L42 | 2 | "5459149".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 34 | BRS | L43 | 5 | "2849466" .pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 35 | IS&R | L24 | 239 | (562/491).CCLS. | USPAT; USOCR; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 36 | IS&R | L28 | 322 | (562/495).CCLS. | USPAT; USOCR; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 37 | BRS | L13 | 456 | Histone adj deacetylase | USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |

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|---|---|---|---|---|---|---|---|
| 38 | BRS | L33 | 436 | dodecen$ and insecticid$ | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |

| | Error Definition | Errors |
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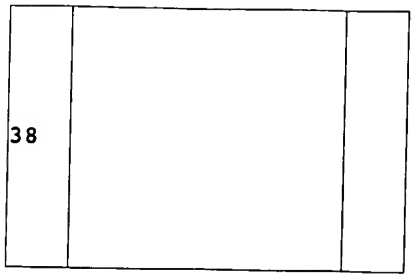
| 35 | | |
| 36 | | |
| 37 | | |


38

| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|---|---|---|---|---|---|---|---|
| 39 | BRS | L20 | 556 | heptatrien$ | USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 40 | BRS | L14 | 5855 | hydroxamic | USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 41 | BRS | L15 | 3694 | histone | USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 42 | BRS | L31 | 15073 | dodecen$ | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |
| 43 | BRS | L32 | 70673 | insecticid$ | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2004/11/19 12:09 | |

| | Error Definition | Errors |
|---|---|---|
| 39 | | |
| 40 | | |
| 41 | | |
| 42 | | |
| 43 | | |

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LOGINID:SSSPTA1623PAZ

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

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| | | |
|---|---|---|
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| NEWS 10 | SEP 01 | New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover! |
| NEWS 11 | SEP 01 | New display format, HITSTR, available in WPIDS/WPINDEX/WPIX |
| NEWS 12 | SEP 27 | STANDARDS will no longer be available on STN |
| NEWS 13 | SEP 27 | SWETSCAN will no longer be available on STN |
| NEWS 14 | OCT 28 | KOREAPAT now available on STN |
| NEWS 15 | NOV 18 | Current-awareness alerts, saved answer sets, and current search transcripts to be affected by CERAB, COMPUAB, ELCOM, and SOLIDSTATE reloads |

| | |
|---|---|
| NEWS EXPRESS | OCTOBER 29 CURRENT WINDOWS VERSION IS V7.01A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004 |
| NEWS HOURS | STN Operating Hours Plus Help Desk Availability |
| NEWS INTER | General Internet Information |
| NEWS LOGIN | Welcome Banner and News Items |
| NEWS PHONE | Direct Dial and Telecommunication Network Access to STN |
| NEWS WWW | CAS World Wide Web Site (general information) |

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FILE 'HOME' ENTERED AT 06:21:17 ON 19 NOV 2004

=> logoff hold
COST IN U.S. DOLLARS

| | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 0.21 | 0.21 |

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 06:21:28 ON 19 NOV 2004

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'HOME' AT 06:39:58 ON 19 NOV 2004
FILE 'HOME' ENTERED AT 06:39:58 ON 19 NOV 2004

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 0.21 | 0.21 |

=> file reg

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 0.21 | 0.21 |

FILE 'REGISTRY' ENTERED AT 06:40:07 ON 19 NOV 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 17 NOV 2004 HIGHEST RN 783276-57-3
DICTIONARY FILE UPDATES: 17 NOV 2004 HIGHEST RN 783276-57-3

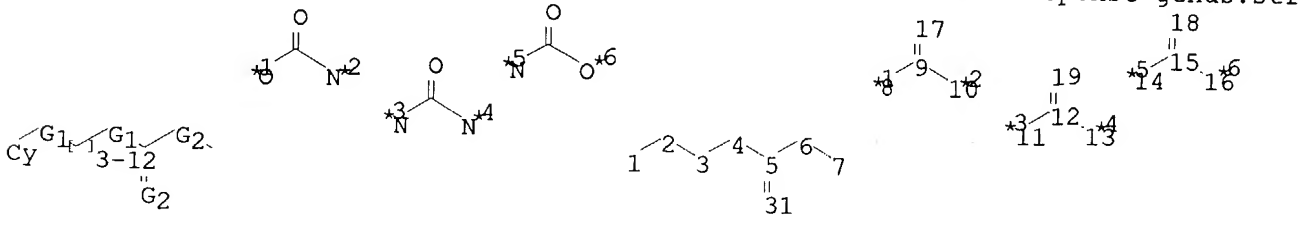
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Examination Auxillary files\10025947\10025947 RCE response genus.str



chain nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 31
chain bonds :
1-2 2-3 3-4 4-5 5-6 5-31 6-7 8-9 9-10 9-17 11-12 12-13 12-19 14-15 15-16 15-18
exact/norm bonds :
1-2 2-3 3-4 4-5 5-6 5-31 6-7 8-9 9-10 9-17 11-12 12-13 12-19 14-15 15-16 15-18

G1:O,S,CH2,N,[*1-*2],[*3-*4],[*5-*6]

G2:O,S

Match level :
1:Atom 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS
31:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam
SAMPLE SEARCH INITIATED 06:40:59 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 370059 TO ITERATE

0.3% PROCESSED 1000 ITERATIONS 14 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

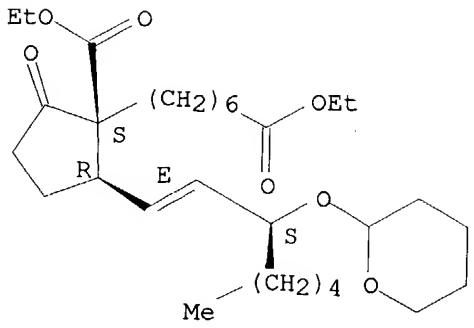
FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: EXCEEDS 1000000
PROJECTED ANSWERS: EXCEEDS 99301

L2 14 SEA SSS SAM L1

=> d scan

L2 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Prost-13-ene-8-carboxylic acid, 1-ethoxy-1,9-dioxo-15-[(tetrahydro-2H-pyran-2-yl)oxy]-, ethyl ester, (13E,15S)-(±)- (9CI)
MF C30 H50 O7

Relative stereochemistry.
Double bond geometry as shown.

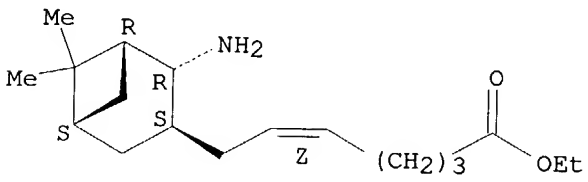


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L2 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 5-Heptenoic acid, 7-[(1R,2R,3S,5S)-2-amino-6,6-dimethylbicyclo[3.1.1]hept-3-yl]-, ethyl ester, (5Z)- (9CI)
MF C18 H31 N O2
CI COM

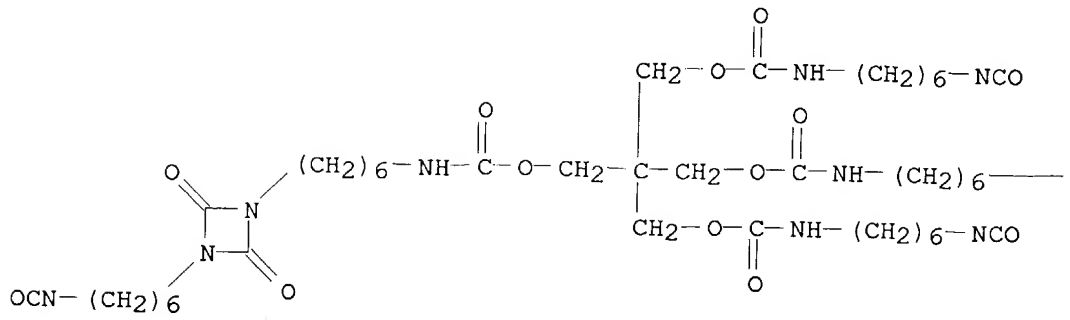
Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L2 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Carbamic acid, (6-isocyanatohexyl)-, 2-[[[[(6-isocyanatohexyl)amino]carbonyl]oxy]methyl]-2-[[[[[6-[3-(6-isocyanatohexyl)-2,4-dioxo-1,3-diazetidin-1-yl]hexyl]amino]carbonyl]oxy]methyl]-1,3-propanediyl ester (9CI)
MF C45 H72 N10 O14
CI COM

PAGE 1-A



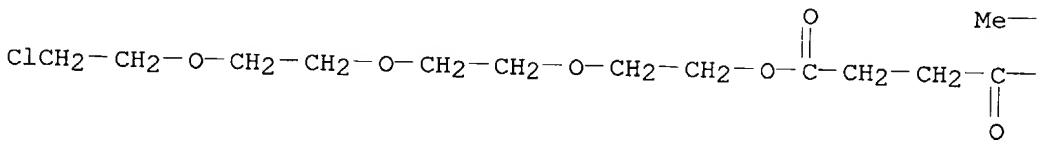
PAGE 1-B

—NCO

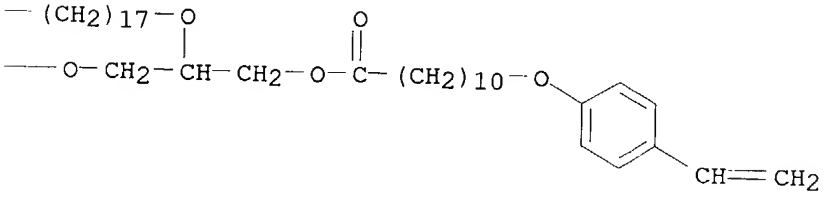
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L2 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Butanedioic acid, 2-[2-[2-(2-chloroethoxy)ethoxy]ethoxy]ethyl 3-[[11-(4-ethenylphenoxy)-1-oxoundecyl]oxy]-2-(octadecyloxy)propyl ester (9CI)
MF C52 H89 Cl O11

PAGE 1-A



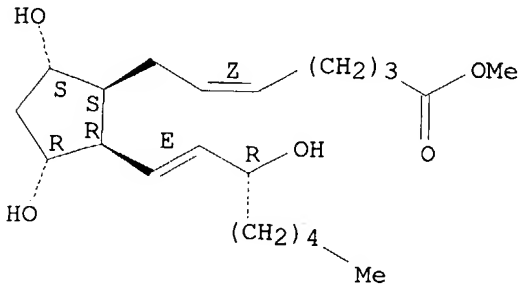
PAGE 1-B



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L2 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, methyl ester, (5Z,8β,9α,11α,13E,15R)- (9CI)
MF C21 H36 O5

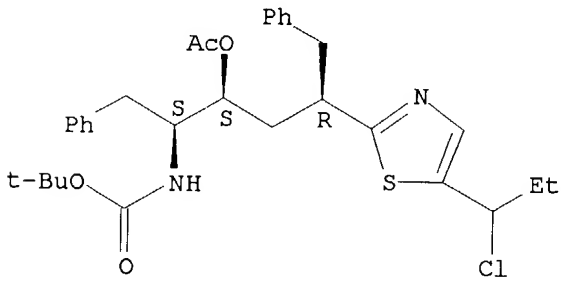
Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L2 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Carbamic acid, [(1S,2S,4R)-2-(acetyloxy)-4-[5-(1-chloropropyl)-2-thiazolyl]-5-phenyl-1-(phenylmethyl)pentyl]-, 1,1-dimethylethyl ester (9CI)
MF C31 H39 Cl N2 O4 S

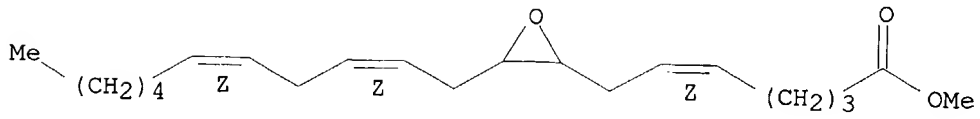
Absolute stereochemistry.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L2 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 5-Heptenoic acid, 7-[3-(2Z,5Z)-2,5-undecadienyloxiranyl]-, methyl ester, (5Z)- (9CI)
MF C21 H34 O3

Double bond geometry as shown.

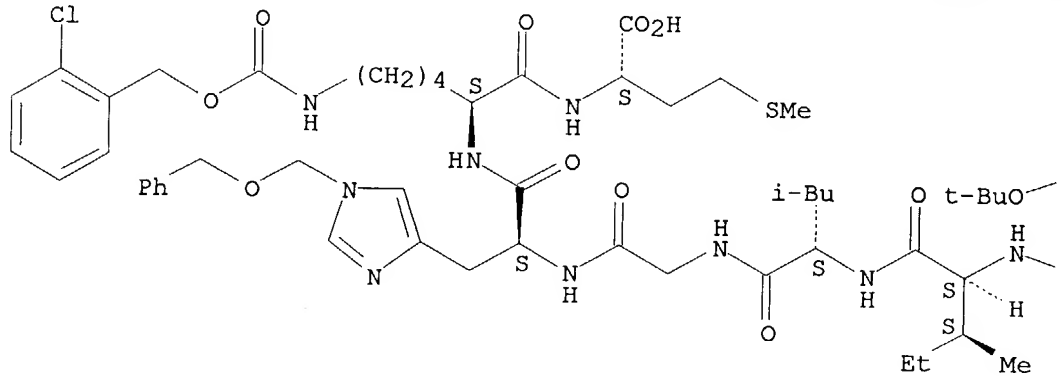


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

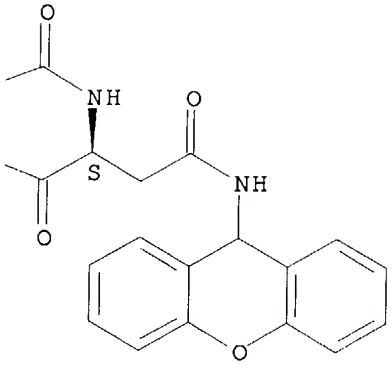
L2 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN L-Methionine, N2-[(1,1-dimethylethoxy)carbonyl]-N-9H-xanthen-9-yl-L-asparaginyl-L-isoleucyl-L-leucylglycyl-1-[(phenylmethoxy)methyl]-L-histidyl-N6-[[(2-chlorophenyl)methoxy]carbonyl]-L-lysyl- (9CI)
SQL 7
MF C69 H90 Cl N11 O15 S

Absolute stereochemistry.

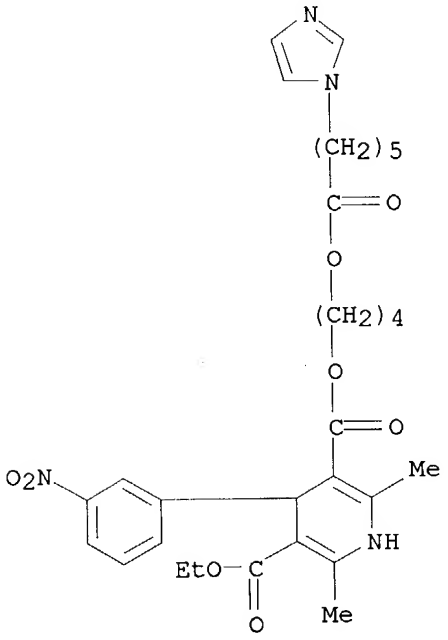
PAGE 1-A



PAGE 1-B

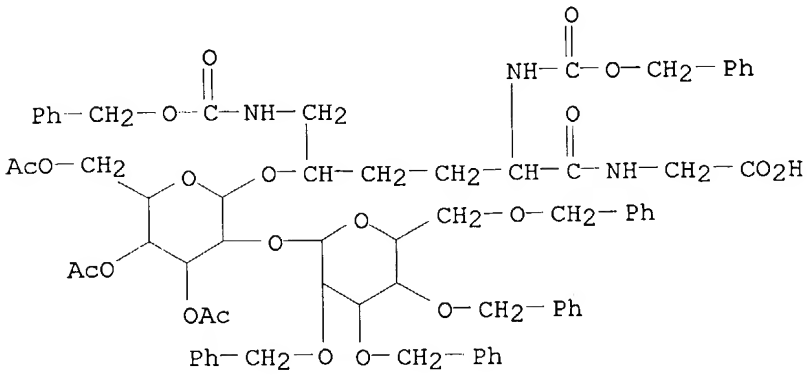


IN 3,5-Pyridinedicarboxylic acid, 1,4-dihydro-2,6-dimethyl-4-(3-nitrophenyl)-, ethyl 4-[[6-(1H-imidazol-1-yl)-1-oxohexyl]oxy]butyl ester (9CI)
MF C30 H38 N4 O8



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

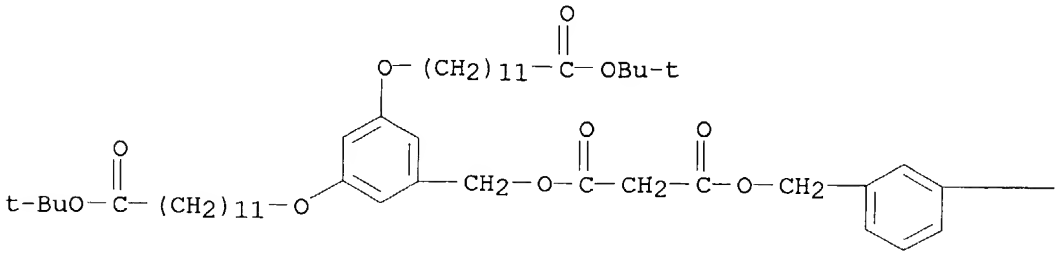
L2 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Glycine, N-[N2,N6-bis[(phenylmethoxy)carbonyl]-threo-5-[[3,4,6-tri-O-acetyl-2-O-[2,3,4,6-tetrakis-O-(phenylmethyl)-α-D-glucopyranosyl]-β-D-galactopyranosyl]oxy]-L-lysyl]- (9CI)
MF C70 H79 N3 O21



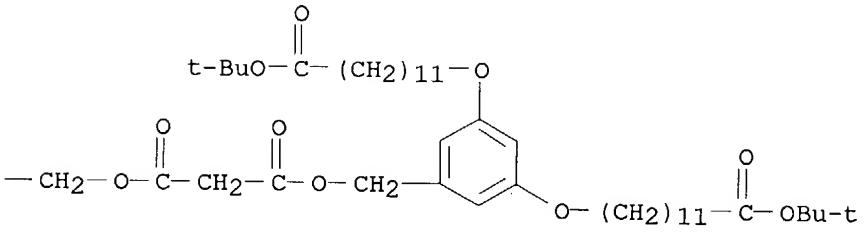
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L2 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Propanedioic acid, 1,3-phenylenebis(methylene) bis[[3,5-bis[[12-(1,1-dimethylethoxy)-12-oxododecyl]oxy]phenyl]methyl] ester (9CI)
MF C92 H146 O20

PAGE 1-A



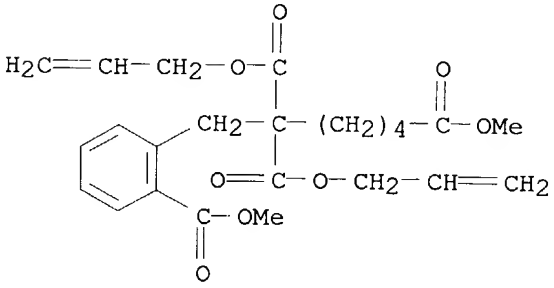
PAGE 1-B



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

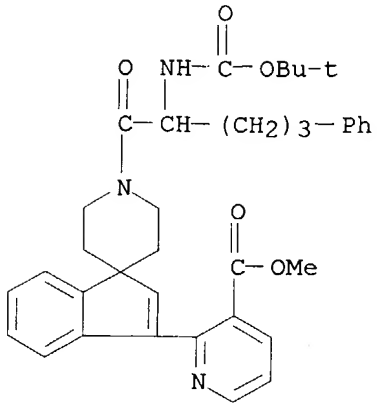
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):4

L2 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1,1,5-Pentanetricarboxylic acid, 1-[[2-(methoxycarbonyl)phenyl]methyl]-, 5-methyl 1,1-di-2-propenyl ester (9CI)
MF C24 H30 O8



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

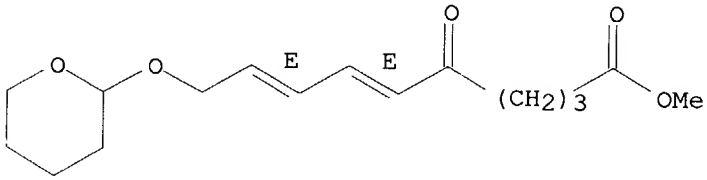
L2 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 3-Pyridinecarboxylic acid, 2-[1'-[2-[[(1,1-dimethylethoxy)carbonyl]amino]-1-oxo-5-phenylpentyl]spiro[1H-indene-1,4'-piperidin]-3-yl]-, methyl ester (9CI)
MF C36 H41 N3 O5



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L2 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 6,8-Decadienoic acid, 5-oxo-10-[(tetrahydro-2H-pyran-2-yl)oxy]-, methyl ester, (E,E)- (9CI)
MF C16 H24 O5

Double bond geometry as shown.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

ALL ANSWERS HAVE BEEN SCANNED

=> logoff hold
COST IN U.S. DOLLARS

| | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 2.10 | 2.31 |

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 06:42:50 ON 19 NOV 2004

Connecting via Winsock to STN

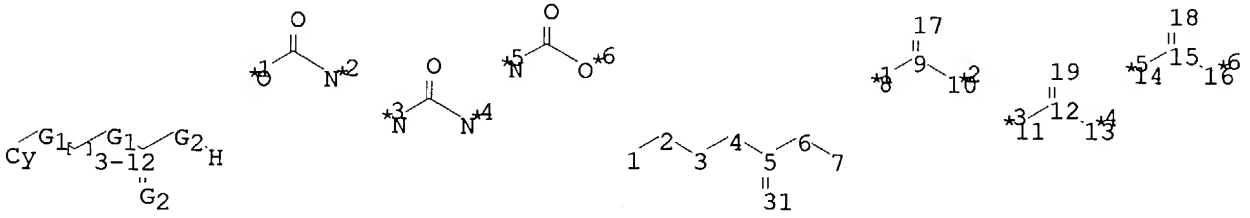
Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 06:46:26 ON 19 NOV 2004
FILE 'REGISTRY' ENTERED AT 06:46:26 ON 19 NOV 2004
COPYRIGHT (C) 2004 American Chemical Society (ACS)

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 2.10 | 2.31 |

=>
Uploading C:\Examination Auxillary files\10025947\10025947 RCE response genus acids.str



chain nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 31
chain bonds :
1-2 2-3 3-4 4-5 5-6 5-31 6-7 8-9 9-10 9-17 11-12 12-13 12-19 14-15 15-16 15-18
exact/norm bonds :
1-2 2-3 3-4 4-5 5-6 5-31 6-7 8-9 9-10 9-17 11-12 12-13 12-19 14-15 15-16 15-18

G1:O,S,CH2,N,[*1-*2],[*3-*4],[*5-*6]

G2:O,S

Match level :
1:Atom 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS
31:CLASS

L3 STRUCTURE UPLOADED

=> d l3
L3 HAS NO ANSWERS
L3 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> search l3 sss sam
SAMPLE SEARCH INITIATED 06:46:58 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 661419 TO ITERATE

0.2% PROCESSED 1000 ITERATIONS 11 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

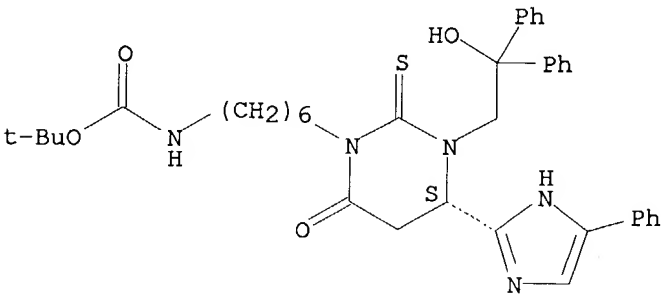
FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: EXCEEDS 1000000
PROJECTED ANSWERS: EXCEEDS 140400

L4 11 SEA SSS SAM L3

=> d scan

L4 11 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Carbamic acid, [6-[(4S)-tetrahydro-3-(2-hydroxy-2,2-diphenylethyl)-6-oxo-4-(4-phenyl-1H-imidazol-2-yl)-2-thioxo-1(2H)-pyrimidinyl]hexyl]-, 1,1-dimethylethyl ester (9CI)
MF C38 H45 N5 O4 S

Absolute stereochemistry.

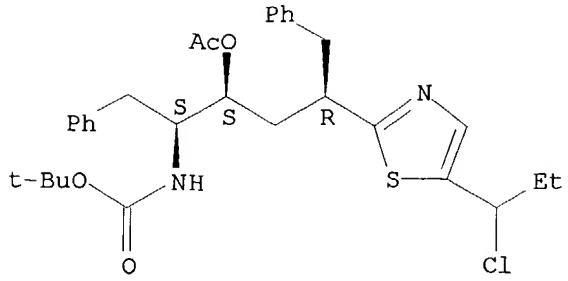



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):11

L4 11 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Carbamic acid, [(1S,2S,4R)-2-(acetyloxy)-4-[5-(1-chloropropyl)-2-thiazolyl]-5-phenyl-1-(phenylmethyl)pentyl]-, 1,1-dimethylethyl ester (9CI)
MF C31 H39 Cl N2 O4 S

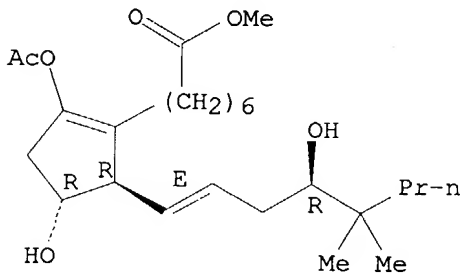
Absolute stereochemistry.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L4 11 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Prosta-8,13-dien-1-oic acid, 9-(acetyloxy)-11,16-dihydroxy-17,17-dimethyl-, methyl ester, (11α,13E,16R)- (9CI)
MF C25 H42 O6

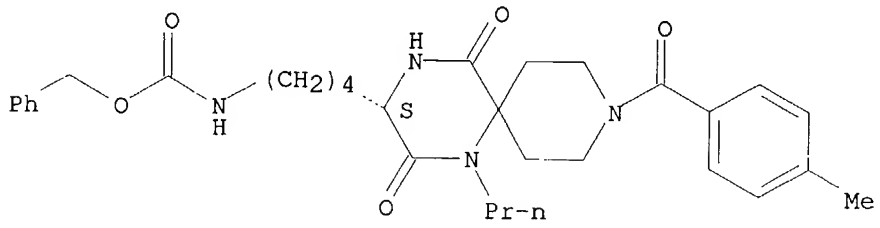
Absolute stereochemistry.
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L4 11 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Carbamic acid, [4-[(3S)-9-(4-methylbenzoyl)-2,5-dioxo-1-propyl-1,4,9-triazaspiro[5.5]undec-3-yl]butyl]-, phenylmethyl ester (9CI)
MF C31 H40 N4 O5

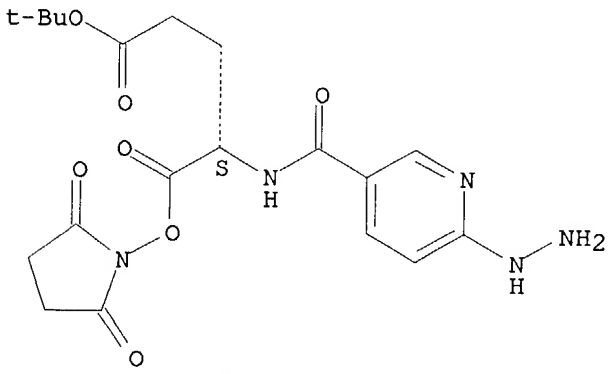
Absolute stereochemistry.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L4 11 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Pentanoic acid, 5-[(2,5-dioxo-1-pyrrolidinyl)oxy]-4-[[(6-hydrazino-3-pyridinyl)carbonyl]amino]-5-oxo-, 1,1-dimethylethyl ester, (4S)- (9CI)
MF C19 H25 N5 O7
CI COM

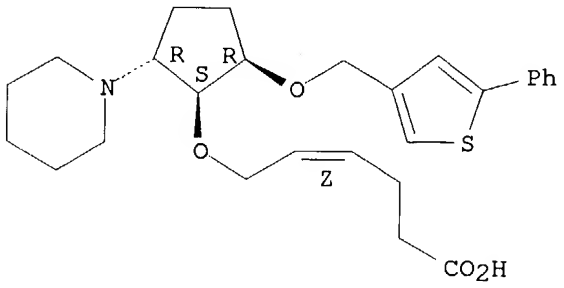
Absolute stereochemistry.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L4 11 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 4-Hexenoic acid, 6-[[2-[(5-phenyl-3-thienyl)methoxy]-5-(1-piperidinyl)cyclopentyl]oxy]-, [1α(Z),2α,5β]- (9CI)
MF C27 H35 N O4 S

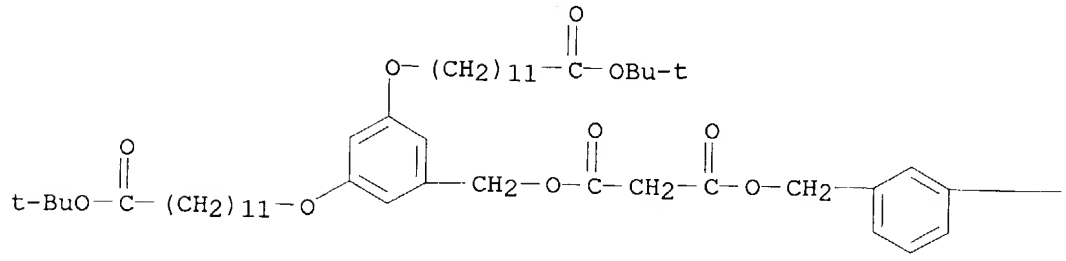
Relative stereochemistry.
Double bond geometry as shown.



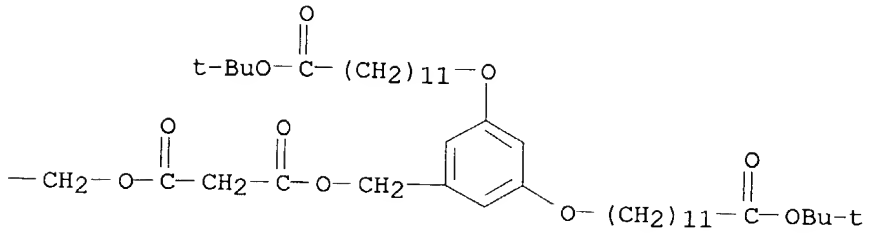

**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L4 11 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Propanedioic acid, 1,3-phenylenebis(methylene) bis[[3,5-bis[[12-(1,1-dimethylethoxy)-12-oxododecyl]oxy]phenyl]methyl] ester (9CI)
MF C92 H146 O20

PAGE 1-A



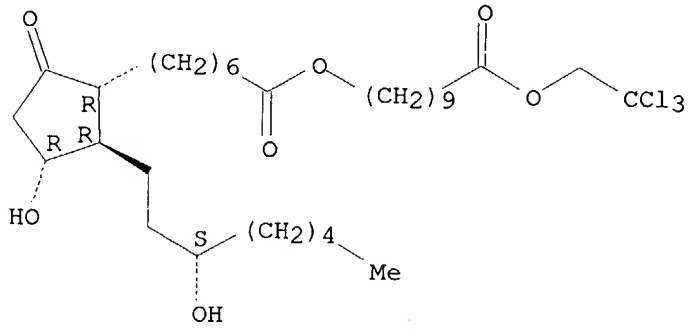
PAGE 1-B



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L4 11 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Prostan-1-oic acid, 11,15-dihydroxy-9-oxo-, 10-oxo-10-(2,2,2-trichloroethoxy)decyl ester, (11α,15S)- (9CI)
MF C32 H55 Cl3 O7

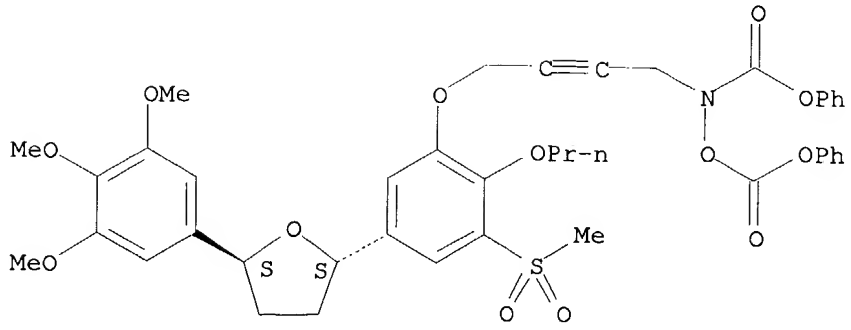
Absolute stereochemistry.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

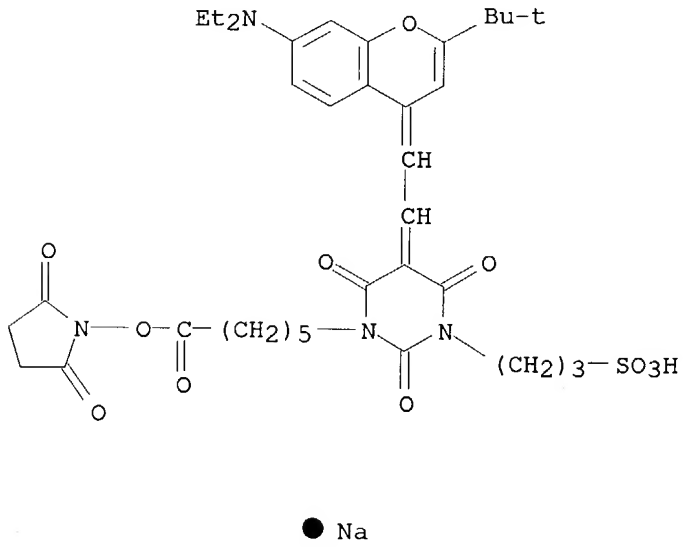
L4 11 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Carbamic acid, [4-[3-(methylsulfonyl)-2-propoxy-5-[tetrahydro-5-(3,4,5-trimethoxyphenyl)-2-furanyl]phenoxy]-2-butynyl][(phenoxycarbonyl)oxy]-, phenyl ester, trans- (9CI)
MF C41 H43 N O13 S

Relative stereochemistry.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

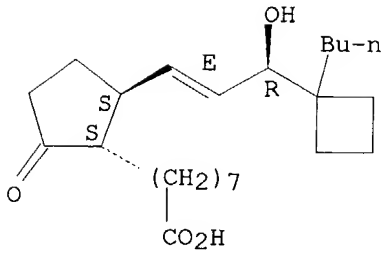
L4 11 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1(2H)-Pyrimidinepropanesulfonic acid, 5-[[7-(diethylamino)-2-(1,1-dimethylethyl)-4H-1-benzopyran-4-ylidene]ethylidene]-3-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]tetrahydro-2,4,6-trioxo-, sodium salt (9CI)
MF C36 H46 N4 O11 S . Na



● Na

L4 11 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Cyclopentaneoctanoic acid, 2-[3-(1-butylcyclobutyl)-3-hydroxy-1-propenyl]-5-oxo-, [1α,2β(1E,3S*)]- (9CI)
MF C24 H40 O4

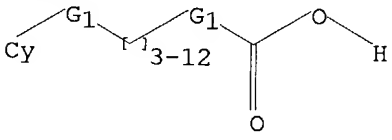
Relative stereochemistry.
Double bond geometry as shown.

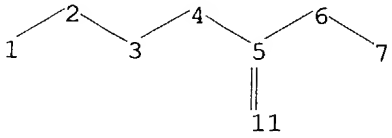



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

ALL ANSWERS HAVE BEEN SCANNED

=>
Uploading C:\Examination Auxillary files\10025947\10025947 RCE response smaller genus.str



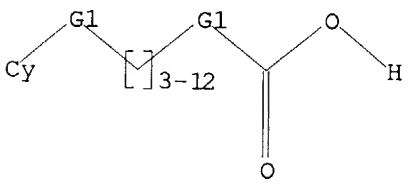

chain nodes :
1 2 3 4 5 6 7 11
chain bonds :
1-2 2-3 3-4 4-5 5-6 5-11 6-7
exact/norm bonds :
1-2 2-3 3-4 4-5
exact bonds :
6-7
normalized bonds :
5-6 5-11

G1:O,S,N,CH2

Match level :
1:Atom 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 11:CLASS

L5 STRUCTURE UPLOADED

=> d l5
L5 HAS NO ANSWERS
L5 STR




G1 O,S,N,CH2

Structure attributes must be viewed using STN Express query preparation.

=> search l5 sss sam
SAMPLE SEARCH INITIATED 06:51:50 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 113352 TO ITERATE

0.9% PROCESSED 1000 ITERATIONS 21 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

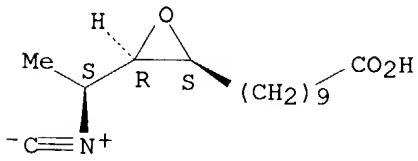
FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: EXCEEDS 1000000
PROJECTED ANSWERS: EXCEEDS 44681

L6 21 SEA SSS SAM L5

=> d scan

L6 21 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Oxiranedecanoic acid, 3-(1-isocyanoethyl)-, [2α,3α(R*)]- (9CI)
MF C15 H25 N O3

Relative stereochemistry.

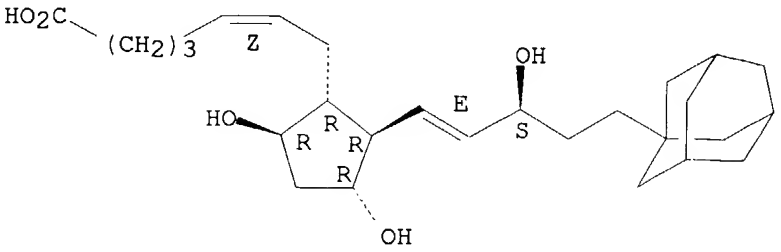



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):21

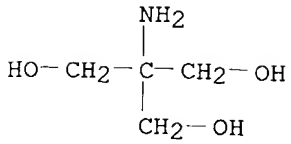
L6 21 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 5-Heptenoic acid, 7-[3,5-dihydroxy-2-(3-hydroxy-5-tricyclo[3.3.1.13,7]dec-1-yl-1-pentenyl)cyclopentyl]-, [1R-[1α(Z),2β(1E,3S*),3α,5β]]-, compd. with 2-amino-2-(hydroxymethyl)-1,3-propanediol (1:1) (9CI)
MF C27 H42 O5 . C4 H11 N O3

CM 1

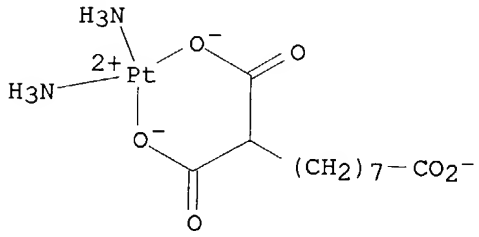
Absolute stereochemistry.
Double bond geometry as shown.



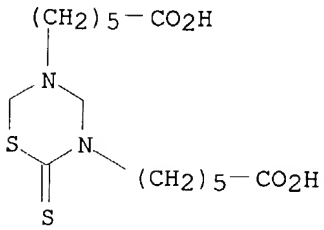
CM 2



L6 21 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Platinate(1-), diammine[1,1,8-octanetricarboxylato(3-)]-, hydrogen, (SP-4-2)- (9CI)
MF C11 H21 N2 O6 Pt . H
CI CCS



L6 21 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2H-1,3,5-Thiadiazine-3,5(4H,6H)-dihexanoic acid, 2-thioxo- (8CI, 9CI)
MF C15 H26 N2 O4 S2

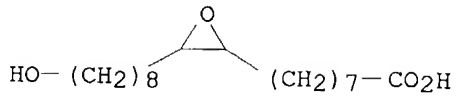


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

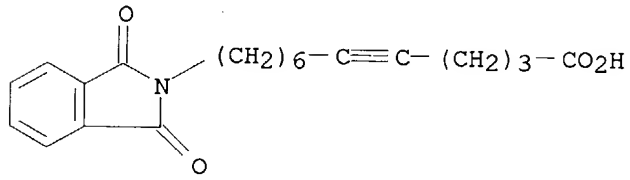
L6 21 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Oxiraneoctanoic acid, 3-(8-hydroxyoctyl)-, didehydro deriv. (9CI)

MF C18 H32 O4
CI IDS

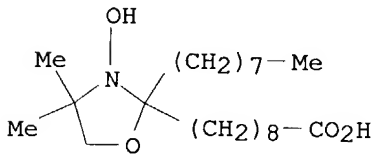
CM 1



L6 21 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 5-Dodecynoic acid, 12-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)- (9CI)
MF C20 H23 N O4

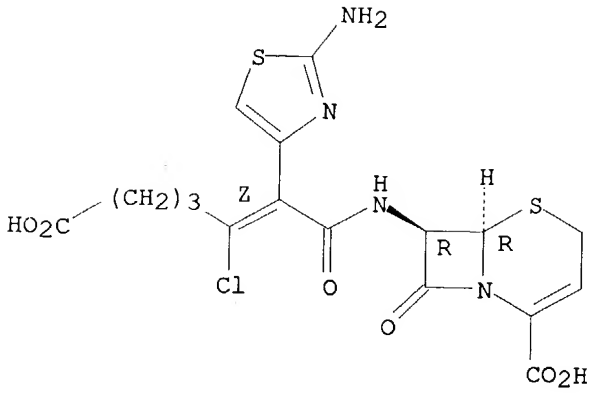


L6 21 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Oxazolidinenonanoic acid, 3-hydroxy-4,4-dimethyl-2-octyl-, monopotassium salt (9CI)
MF C22 H43 N O4 . K



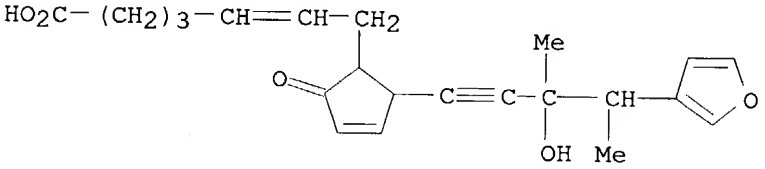
L6 21 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[2-(2-amino-4-thiazolyl)-6-carboxy-3-chloro-1-oxo-2-hexenyl]amino]-8-oxo-, [6R-[6α,7β(Z)]]- (9CI)
MF C17 H17 Cl N4 O6 S2
CI COM

Absolute stereochemistry.
Double bond geometry as shown.



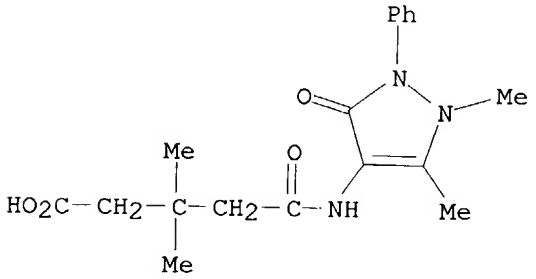
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L6 21 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 5-Heptenoic acid, 7-[2-[4-(3-furanyl)-3-hydroxy-3-methyl-1-pentynyl]-5-oxo-3-cyclopenten-1-yl]- (9CI)
MF C22 H26 O5



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

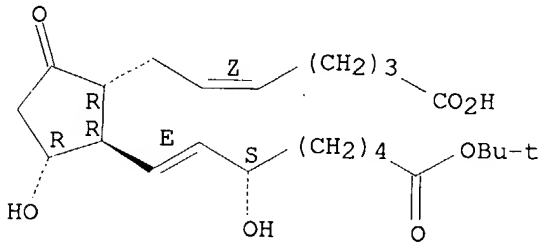
L6 21 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Pentanoic acid, 5-[(2,3-dihydro-1,5-dimethyl-3-oxo-2-phenyl-1H-pyrazol-4-yl)amino]-3,3-dimethyl-5-oxo- (9CI)
MF C18 H23 N3 O4



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

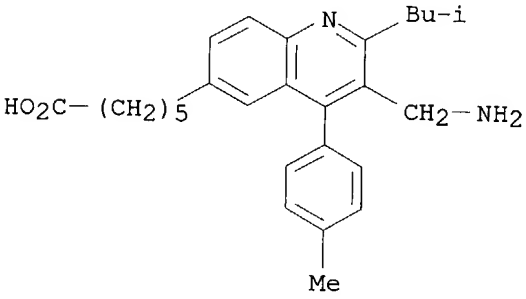
L6 21 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Prosta-5,13-diene-1,20-dioic acid, 11,15-dihydroxy-9-oxo-, 20-(1,1-dimethylethyl) ester, (5Z,11α,13E,15S)- (9CI)
MF C24 H38 O7

Absolute stereochemistry.
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

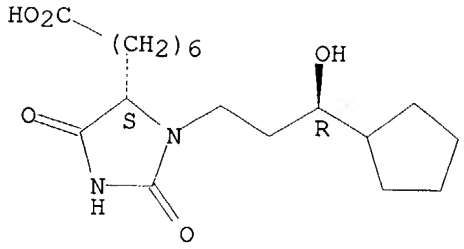
L6 21 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 6-Quinolinehexanoic acid, 3-(aminomethyl)-4-(4-methylphenyl)-2-(2-methylpropyl)-, dihydrochloride (9CI)
MF C27 H34 N2 O2 . 2 Cl H




●2 HCl

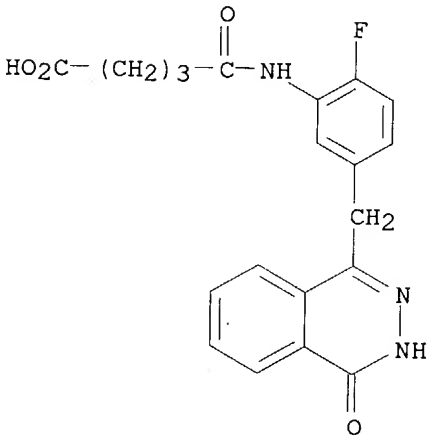
L6 21 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 4-Imidazolidineheptanoic acid, 3-(3-cyclopentyl-3-hydroxypropyl)-2,5-dioxo-, (R*,S*)- (9CI)
MF C18 H30 N2 O5

Relative stereochemistry.



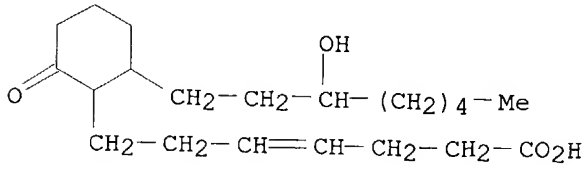
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L6 21 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Pentanoic acid, 5-[[5-[(3,4-dihydro-4-oxo-1-phthalazinyl)methyl]-2-fluorophenyl]amino]-5-oxo- (9CI)
MF C20 H18 F N3 O4



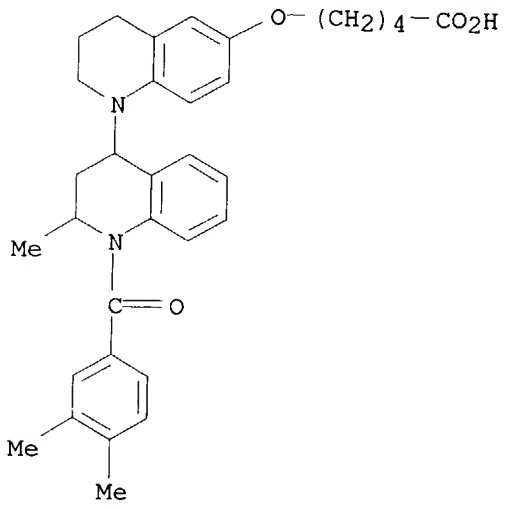
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L6 21 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 4-Heptenoic acid, 7-[2-(3-hydroxyoctyl)-6-oxocyclohexyl]- (9CI)
MF C21 H36 O4



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

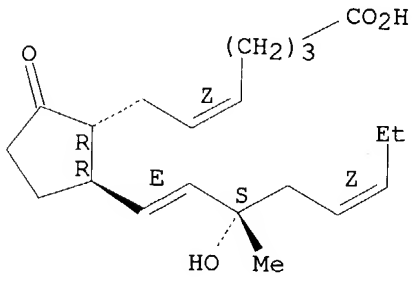
L6 21 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Pentanoic acid, 5-[[1'-(3,4-dimethylbenzoyl)-1',2',3,3',4,4'-hexahydro-2'-methyl[1(2H),4'-biquinolin]-6-yl]oxy]- (9CI)
MF C33 H38 N2 O4




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L6 21 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Prosta-5,13,17-trien-1-oic acid, 15-hydroxy-15-methyl-9-oxo-, (5Z,13E,15S,17Z)- (9CI)
MF C21 H32 O4

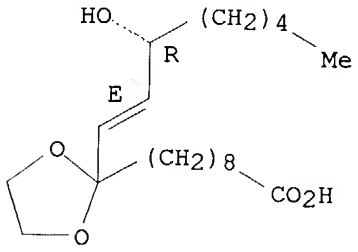
Absolute stereochemistry.
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L6 21 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1,3-Dioxolane-2-nonanoic acid, 2-[(1E,3R)-3-hydroxy-1-octenyl]- (9CI)
MF C20 H36 O5

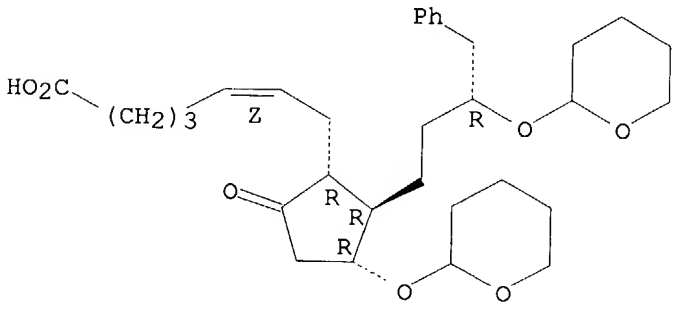
Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

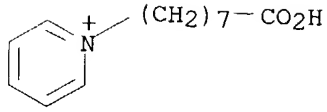
L6 21 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 5-Heptenoic acid, 7-[5-oxo-2-[4-phenyl-3-[(tetrahydro-2H-pyran-2-yl)oxy]butyl]-3-[(tetrahydro-2H-pyran-2-yl)oxy]cyclopentyl]-, [1R-[1α(Z),2β(R*),3α]]- (9CI)
MF C32 H46 O7

Absolute stereochemistry.
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L6 21 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Pyridinium, 1-(7-carboxyheptyl)-, hydroxide, monohydrate (9CI)
MF C13 H20 N O2 . H2 O . H O

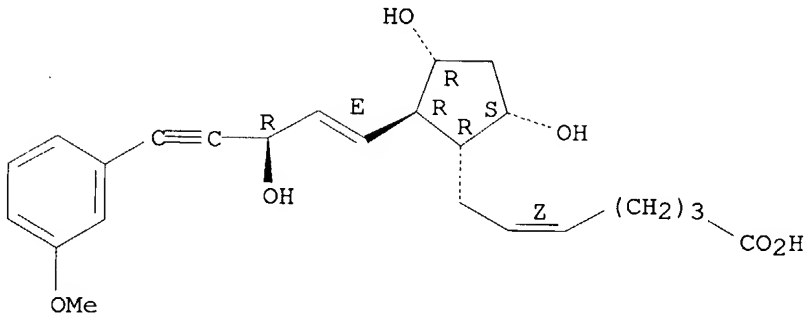


● $OH^-$

● $H_2O$

L6 21 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 5-Heptenoic acid, 7-[3,5-dihydroxy-2-[3-hydroxy-5-(3-methoxyphenyl)-1-penten-4-ynyl]cyclopentyl]-, [1R-[1α(Z),2β(1E,3R*),3α,5.alpha.]]- (9CI)
MF C24 H30 O6

Absolute stereochemistry.
Double bond geometry as shown.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

ALL ANSWERS HAVE BEEN SCANNED

=> e Pyridinium, 1-(7-carboxyheptyl)-, hydroxide, monohydrate/cn
E1 1 PYRIDINIUM, 1-(7-CARBOXYHEPTYL)-, BROMIDE/CN
E2 1 PYRIDINIUM, 1-(7-CARBOXYHEPTYL)-, CHLORIDE/CN
E3 1 --> PYRIDINIUM, 1-(7-CARBOXYHEPTYL)-, HYDROXIDE, MONOHYDRATE/CN
E4 1 PYRIDINIUM, 1-(7-CARBOXYHEPTYL)-, INNER SALT/CN
E5 1 PYRIDINIUM, 1-(7-CARBOXYHEPTYL)-3-(1-METHYL-2-PYRROLIDINYL)-, INNER SALT, (S)-/CN
E6 1 PYRIDINIUM, 1-(7-CARBOXYHEPTYL)-4-(2-(4-(DIMETHYLAMINO)PHENYL)ETHENYL)-/CN
E7 1 PYRIDINIUM, 1-(7-CARBOXYHEPTYL)-4-(2-(4-(DIMETHYLAMINO)PHENYL)ETHENYL)-, BROMIDE/CN
E8 1 PYRIDINIUM, 1-(7-CHLORO-2,3-DIHYDRO-1-METHYL-2-OXO-5-PHENYL-

```
                    1H-1,4-BENZODIAZEPIN-3-YL)-/CN
E9          1       PYRIDINIUM, 1-(7-CHLORO-2,3-DIHYDRO-1-METHYL-2-OXO-5-PHENYL-
                    1H-1,4-BENZODIAZEPIN-3-YL)-, CHLORIDE/CN
E10         1       PYRIDINIUM, 1-(7-CHLORO-2,3-DIHYDRO-1-METHYL-2-OXO-5-PHENYL-
                    1H-1,4-BENZODIAZEPIN-3-YL)-3-((DIETHYLAMINO)CARBONYL)-/CN
E11         1       PYRIDINIUM, 1-(7-CHLORO-2,3-DIHYDRO-1-METHYL-2-OXO-5-PHENYL-
                    1H-1,4-BENZODIAZEPIN-3-YL)-3-((DIETHYLAMINO)CARBONYL)-, CHLO
                    RIDE/CN
E12         1       PYRIDINIUM, 1-(7-CHLORO-2,3-DIHYDRO-2-OXO-5-PHENYL-1H-1,4-BE
                    NZODIAZEPIN-3-YL)-/CN

=> e3
L7          1 "PYRIDINIUM, 1-(7-CARBOXYHEPTYL)-, HYDROXIDE, MONOHYDRATE"/CN

=> d l7

L7   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   205450-82-4  REGISTRY
CN   Pyridinium, 1-(7-carboxyheptyl)-, hydroxide, monohydrate (9CI)
     (CA INDEX NAME)
MF   C13 H20 N O2 . H2 O . H O
SR   CA
LC   STN Files:   CA, CAPLUS
DT.CA  CAplus document type:  Journal
RL.NP  Roles from non-patents:  PREP (Preparation); PRP (Properties)
CRN  (710276-29-2)
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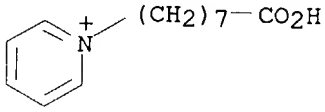

● $OH^-$

● $H_2O$

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    16.28      16.49

FILE 'CAPLUS' ENTERED AT 06:58:00 ON 19 NOV 2004
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FILE COVERS 1907 - 19 Nov 2004 VOL 141 ISS 21
FILE LAST UPDATED: 17 Nov 2004 (20041117/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> 17
L8 1 L7

=> d 18 ti fbib abs

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
TI Electrostatic Interactions and Conformations of Zwitterionic Pyridinium Alkanoates
AN 1998:269209 CAPLUS
DN 128:270217
TI Electrostatic Interactions and Conformations of Zwitterionic Pyridinium Alkanoates
AU Szafran, Miroslaw; Dega-Szafran, Zofia; Katrusiak, Andrzej; Buczak, Grzegorz; Glowiak, Tadeusz; Sitkowski, Jerzy; Stefaniak, Lech
CS Faculty of Chemistry, A. Mickiewicz University, Poznan, 60-780, Pol.
SO Journal of Organic Chemistry (1998), 63(9), 2898-2908
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
AB Abstract: Conformations of flexible zwitterionic ω-pyridinium alkanoates (PBn) with n methylene units in the tether and their hydrates and hydrochlorides are studied in the solid state by X-ray diffraction, in aqueous solution by FT-IR and 1H,13C, and 14N NMR spectroscopies, and in the gas phase by PM3, SAM1, and DFT calcns. PB1 and PB1·H2O in crystals have a conformation with the N+···O intramol. distance of ca. 2.7 Å, while PB3·2H2O and PB10·3H2O have a trans-zigzag conformation and are arranged antiparallel. Structures of isolated mols. of ω-pyridinium alkanoates (PBn) and their dihydrates (PBn·2H2O) and hydrochlorides (PBn·HCl) optimized using the PM3, SAM1, and DFT methods are significantly different from those observed in the crystals. In crystals, when n ≥ 2, as a result of electrostatic interactions in the crystal lattice, the pos. charged center (N+ atom) interacts with neg. carboxyl groups, water mols., or chloride ions of the neighboring mols. (intermol. charge compensation), while in the gas phase only with their own (intramol. charge compensation). In aqueous solns., similarly as in the crystalline state, distances between the charged centers increase monotonically with increasing number of methylene units in the tether. The 1 H and 13C NMR data suggest that polymethylene chains in PBn contain more folded (gauche) conformations than do sodium salts of carboxylic acids without a charged N+ atom. The SCRF calcns. predict slightly longer N+···Cc distances than those derived by Chevalier and Perchec for trimethylammonium carboxylates from 13C NMR spectra. This suggests that the SCRF model underestimates contribution of the gauche conformers in aqueous solns.
RE.CNT 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

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=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY      SESSION
FULL ESTIMATED COST                                    5.19        21.68

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY      SESSION
CA SUBSCRIBER PRICE                                   -0.70       -0.70

FILE 'REGISTRY' ENTERED AT 07:01:29 ON 19 NOV 2004
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   17 NOV 2004  HIGHEST RN 783276-57-3
DICTIONARY FILE UPDATES:  17 NOV 2004  HIGHEST RN 783276-57-3

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> e  Oxiraneoctanoic acid, 3-(8-hydroxyoctyl)-, didehydro deriv/cn
E1            1     OXIRANEOCTANOIC ACID, 3-(8-HYDROXYOCTYL)-, (2R-CIS)-/CN
E2            1     OXIRANEOCTANOIC ACID, 3-(8-HYDROXYOCTYL)-, CIS-/CN
E3            0 --> OXIRANEOCTANOIC ACID, 3-(8-HYDROXYOCTYL)-, DIDEHYDRO DERIV/C
                    N
E4            1     OXIRANEOCTANOIC ACID, 3-(8-HYDROXYOCTYL)-, DIDEHYDRO DERIV./
                    CN
E5            1     OXIRANEOCTANOIC ACID, 3-(8-HYDROXYOCTYL)-, METHYL ESTER/CN
E6            1     OXIRANEOCTANOIC ACID, 3-(8-HYDROXYOCTYL)-, METHYL ESTER, CIS
                    -/CN
E7            1     OXIRANEOCTANOIC ACID, 3-(8-HYDROXYOCTYL)-, METHYL ESTER, TRA
                    NS-/CN
E8            1     OXIRANEOCTANOIC ACID, 3-(8-HYDROXYOCTYL)-, TRANS-(+)-/CN
E9            1     OXIRANEOCTANOIC ACID, 3-(8-HYDROXYOCTYL)-, TRANS-(-)-/CN
E10           1     OXIRANEOCTANOIC ACID, 3-(8-METHOXYOCTYL)-, (2R,3S)-REL-/CN
E11           1     OXIRANEOCTANOIC ACID, 3-(8-OXOOCTYL)-/CN
E12           1     OXIRANEOCTANOIC ACID, 3-(ACETYLOXY)-, METHYL ESTER, CIS-/CN

=> e4
L9            1 "OXIRANEOCTANOIC ACID, 3-(8-HYDROXYOCTYL)-, DIDEHYDRO DERIV."/CN

=> d l4

L4   ANSWER 1 OF 11  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   691844-89-0  REGISTRY
CN   Pentanoic acid, 5-[(2,5-dioxo-1-pyrrolidinyl)oxy]-4-[[(6-hydrazino-3-
     pyridinyl)carbonyl]amino]-5-oxo-, 1,1-dimethylethyl ester, (4S)- (9CI)
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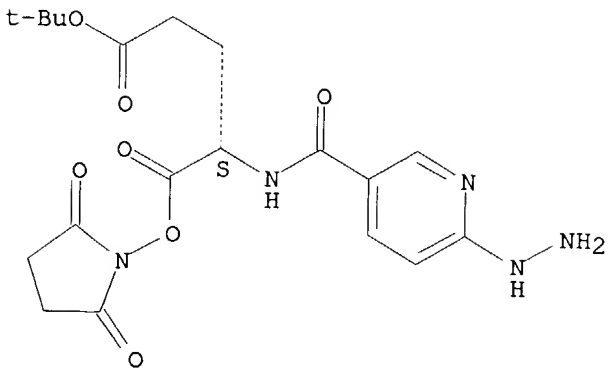
(CA INDEX NAME)
FS STEREOSEARCH
MF C19 H25 N5 O7
CI COM
SR CA

Absolute stereochemistry.



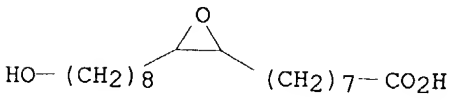
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

=> d l9

L9 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 75901-10-9 REGISTRY
CN **Oxiraneoctanoic acid, 3-(8-hydroxyoctyl)-, didehydro deriv. (9CI)**
(CA INDEX NAME)
MF C18 H32 O4
CI IDS
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: BIOL (Biological study)

CM 1

CRN 3233-92-9
CMF C18 H34 O4



2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus
COST IN U.S. DOLLARS

| | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 8.39 | 30.07 |

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

| | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | 0.00 | -0.70 |

FILE 'CAPLUS' ENTERED AT 07:02:22 ON 19 NOV 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.


FILE COVERS 1907 - 19 Nov 2004 VOL 141 ISS 21
FILE LAST UPDATED: 17 Nov 2004 (20041117/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l9
L10 2 L9

=> d l10 1-2 ti fbib abs

L10 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
TI Lipid polymers accumulate in the epidermis and mestome sheath cell walls during low temperature development of winter rye leaves
AN 1985:403819 CAPLUS
DN 103:3819
TI Lipid polymers accumulate in the epidermis and mestome sheath cell walls during low temperature development of winter rye leaves
AU Griffith, Marilyn; Huner, N. P. A.; Espelie, K. E.; Kolattukudy, P. E.
CS Dep. Plant Sci., Univ. West. Ontario, London, ON, N6A 5B7, Can.
SO Protoplasma (1985), 125(1-2), 53-64
CODEN: PROTA5; ISSN: 0033-183X
DT Journal
LA English
AB Winter rye (Secale cereale, cv Puma) was grown at 20° and at 5° and the development of epidermal and mestome sheath cells of leaves from plants grown at both temps. was compared by electron microscopy. At 5° the cells became densely packed with cytoplasm and small vacuoles after 41 days of growth. By day 56 at 5°, epidermal and mestome sheath cells were small in diameter and multivacuolate with asym. thickened walls. By day 76 at 5°, a new developmental stage had been reached in epidermal and mestome sheath cells. The cells were larger in diameter although the thickened cell walls and multivacuolate cytoplasm were still present. As epidermal and mestome sheath cell walls thickened during low temperature growth of winter rye, an increase in cuticle thickness and the deposition of a lamellar layer could be observed in epidermal and mestome sheath cells, resp. The lipid-derived polymers from the leaves of rye plants grown at 20° were shown by reductive depolymn. and gas chromatog.-mass spectroscopy (GC-MS) to be comprised of 18-hydroxy-9,10-epoxyoctadecanoic acid (47%) and dihydroxyhexadecanoic acid (29%). The leaves of plants grown at 5° had 2-4 times as much

lipid-derived polymeric material as those grown at 20° and the proportion of the major monomer, 18-hydroxy-9,10-epoxyoctadecanoic acid, increased to 73% of the polymeric material. Phys. isolation of both epidermal tissue and vascular bundles followed by GC-MS anal. of the monomeric components released by reduction of the resp. lipid polymers showed that 18-hydroxy-9,10-epoxyoctadecanoic acid was the major monomer in the polymer of both the epidermis and the mestome sheaths. The presence of this epoxide monomer in both the cuticle and mestome sheath cell walls of rye leaves was confirmed and visualized by using an epoxide-specific staining reaction.

L10 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
TI Composition, ultrastructure and function of the cutin- and suberin-containing layers in the leaf, fruit peel, juice-sac and inner seed coat of grapefruit (Citrus paradisi Macfed.)
AN 1981:12771 CAPLUS
DN 94:12771
TI Composition, ultrastructure and function of the cutin- and suberin-containing layers in the leaf, fruit peel, juice-sac and inner seed coat of grapefruit (Citrus paradisi Macfed.)
AU Espelie, Karl E.; Davis, Ronald W.; Kolattukudy, P. E.
CS Inst. Biol. Chem., Washington State Univ., Pullman, WA, 99164, USA
SO Planta (1980), 149(5), 498-511
CODEN: PLANAB; ISSN: 0032-0935
DT Journal
LA English
AB Cutin and suberin polymers from various anatomical regions of grapefruit were analyzed chemical and ultrastructurally. The leaf, fruit peel, and juice-sac showed an amorphous cuticular layer. The cutin in the leaf was composed of 10,16-dihydroxy C16 acid and its positional isomers as the major monomers, whereas 16-hydroxy-10-oxo C16 acid was a major component in the fruit peel. Juice-sac cutin, on the other hand, contained the dihydroxy C16 acids, hydroxyoxo C16 acids, hydroxyepoxy C18 acids, and trihydroxy C18 acids. Ultrastructural examination of the inner seed coat showed that an amorphous cuticular layer encircled the entire seed except in the chalazal region which showed several layers of cells with lamellar suberin structure throughout the cell walls. Consistent with the ultrastructural assignment, the compns. of the aliphatic components of the polymers from the chalazal region and the nonchalazal region indicated the presence of suberin and cutin, resp. The aliphatic portion of the polymer from the chalazal region of the inner seed coat contained C16, C18:1, C22, and C24 ω-hydroxy acids (46% combined total) and the corresponding dicarboxylic acids (43%) as the major components. ω-Hydroxy-9,10-epoxy C18 acids and 9,10,18-trihydroxy C18 acids were the major components (77%) of the polymer from the nonchalazal portion of the inner seed coat. The main portion and the chalazal region of the inner seed coat yielded 17 and 342 μg/cm2 of aliphatic monomers, resp., and the diffusion resistance of these 2 portions of the inner seed coat were 62 and 192 s/cm, resp. The inner seed coat was the major moisture diffusion barrier influencing imbibition and germination.

=> logoff hold

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 7.30 | 37.37 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | -1.40 | -2.10 |

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 07:05:11 ON 19 NOV 2004

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 07:14:07 ON 19 NOV 2004
FILE 'CAPLUS' ENTERED AT 07:14:07 ON 19 NOV 2004
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 7.30 | 37.37 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | -1.40 | -2.10 |

=> file reg

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 7.74 | 37.81 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | -1.40 | -2.10 |

FILE 'REGISTRY' ENTERED AT 07:14:27 ON 19 NOV 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 17 NOV 2004 HIGHEST RN 783276-57-3
DICTIONARY FILE UPDATES: 17 NOV 2004 HIGHEST RN 783276-57-3

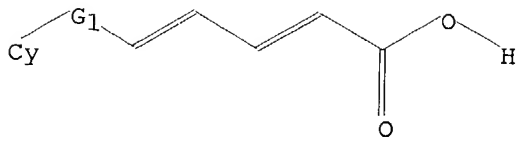
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

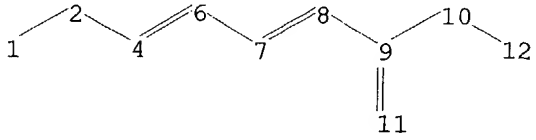
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Examination Auxillary files\10025947\10025947 RCE response 1 st
stab.str



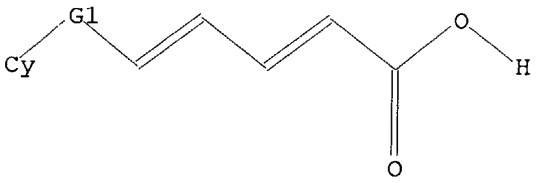

chain nodes :
1 2 4 6 7 8 9 10 11 12
chain bonds :
1-2 2-4 4-6 6-7 7-8 8-9 9-10 9-11 10-12
exact/norm bonds :
1-2 2-4
exact bonds :
4-6 6-7 7-8 8-9 10-12
normalized bonds :
9-10 9-11

G1:O,S,N,CH2

Match level :
1:Atom 2:CLASS 4:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS
12:CLASS

L11 STRUCTURE UPLOADED

=> d l11
L11 HAS NO ANSWERS
L11 STR




G1 O,S,N,CH2

Structure attributes must be viewed using STN Express query preparation.

=> search l11 sss
ENTER SCOPE OF SEARCH (SAMPLE), FULL, RANGE, OR SUBSET:sam
SAMPLE SEARCH INITIATED 07:15:08 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 466 TO ITERATE

100.0% PROCESSED 466 ITERATIONS 9 ANSWERS
SEARCH TIME: 00.00.01

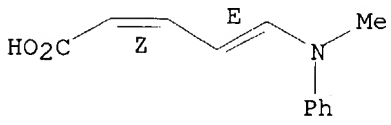
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 8025 TO 10615
PROJECTED ANSWERS: 9 TO 360

L12 9 SEA SSS SAM L11

=> d scan

L12 9 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Pentadienoic acid, 5-(methylphenylamino)-, (E,Z)- (9CI)
MF C12 H13 N O2

Double bond geometry as shown.

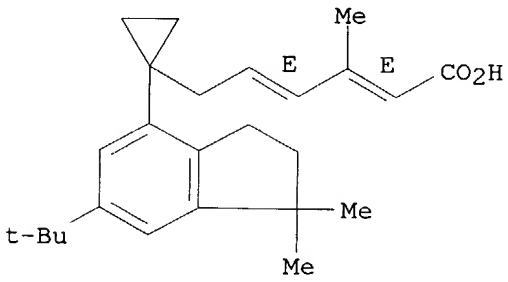



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):9

L12 9 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-[1-[6-(1,1-dimethylethyl)-2,3-dihydro-1,1-dimethyl-1H-inden-4-yl]cyclopropyl]-3-methyl-, (2E,4E)- (9CI)
MF C25 H34 O2

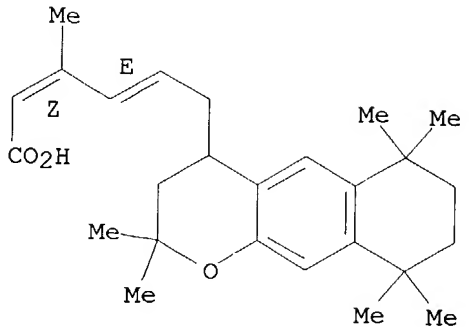
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

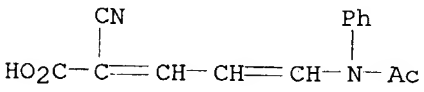
L12 9 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-(3,4,6,7,8,9-hexahydro-2,2,6,6,9,9-hexamethyl-2H-naphtho[2,3-b]pyran-4-yl)-3-methyl-, (2Z,4E)- (9CI)
MF C26 H36 O3

Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

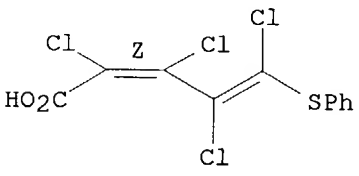
L12 9 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Pentadienoic acid, 5-(acetylphenylamino)-2-cyano- (9CI)
MF C14 H12 N2 O3




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

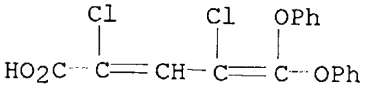
L12 9 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Pentadienoic acid, 2,3,4,5-tetrachloro-5-(phenylthio)-, (?,Z)- (9CI)
MF C11 H6 Cl4 O2 S

Double bond geometry as described by E or Z.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

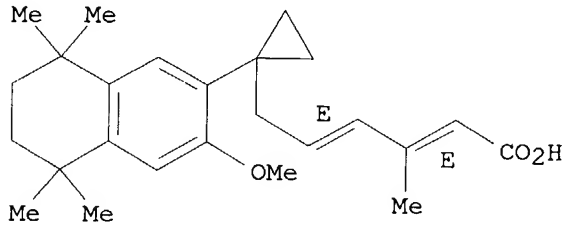
L12 9 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Pentadienoic acid, 2,4-dichloro-5-oxo-, diphenyl acetal (8CI)
MF C17 H12 Cl2 O4



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L12 9 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 3-methyl-6-[1-(5,6,7,8-tetrahydro-3-methoxy-5,5,8,8-tetramethyl-2-naphthalenyl)cyclopropyl]-, (2E,4E)- (9CI)
MF C25 H34 O3

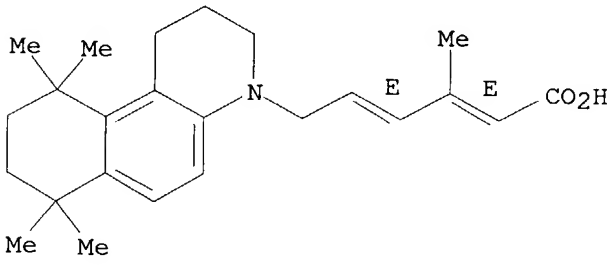
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

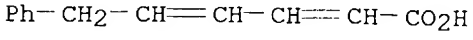
L12 9 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-(2,3,7,8,9,10-hexahydro-7,7,10,10-tetramethylbenzo[f]quinolin-4(1H)-yl)-3-methyl-, (2E,4E)- (9CI)
MF C24 H33 N O2

Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L12 9 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-phenyl- (9CI)
MF C12 H12 O2



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

ALL ANSWERS HAVE BEEN SCANNED

```
=> e 2,4-Pentadienoic acid, 5-(methylphenylamino)-, (E,Z)-/cn
E1            1      2,4-PENTADIENOIC ACID, 5-(METHYL(2-((2-METHYL-1-OXO-2-PROPEN
                     YL)OXY)ETHYL)AMINO)-2-(PHENYLSULFONYL)-, ETHYL ESTER, POLYME
                     R WITH METHYL 2-METHYL-2-PROPENOATE/CN
E2            1      2,4-PENTADIENOIC ACID, 5-(METHYLCARBAMOYL)-, ETHYL ESTER, (Z
                     ,Z)-/CN
E3            1 --> 2,4-PENTADIENOIC ACID, 5-(METHYLPHENYLAMINO)-, (E,Z)-/CN
E4            1      2,4-PENTADIENOIC ACID, 5-(METHYLSULFONYL)-, METHYL ESTER, (E
                     ,E)-/CN
E5            1      2,4-PENTADIENOIC ACID, 5-(METHYLTHIO)-, METHYL ESTER, (E,E)-
                     /CN
E6            1      2,4-PENTADIENOIC ACID, 5-(METHYLTHIO)-, METHYL ESTER, (Z,E)-
                     /CN
E7            1      2,4-PENTADIENOIC ACID, 5-(O-AMINOPHENYL)-/CN
E8            1      2,4-PENTADIENOIC ACID, 5-(O-AMINOPHENYL)-2-(2-HYDROXYETHYL)-
                     , Γ-LACTONE/CN
E9            1      2,4-PENTADIENOIC ACID, 5-(O-AMINOPHENYL)-2-(O-METHOXYPHENYL)
                     -, ETHYL ESTER/CN
E10           1      2,4-PENTADIENOIC ACID, 5-(O-CHLOROPHENYL)-/CN
E11           1      2,4-PENTADIENOIC ACID, 5-(O-CHLOROPHENYL)-, (E,E)-/CN
E12           1      2,4-PENTADIENOIC ACID, 5-(O-CHLOROPHENYL)-2-(ETHYLSULFONYL)-
                     /CN

=> e7
L13           1 "2,4-PENTADIENOIC ACID, 5-(O-AMINOPHENYL)-"/CN

=> e3
L14           1 "2,4-PENTADIENOIC ACID, 5-(METHYLPHENYLAMINO)-, (E,Z)-"/CN

=> d l14

L14  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   52331-39-2  REGISTRY
CN   2,4-Pentadienoic acid, 5-(methylphenylamino)-, (E,Z)- (9CI)  (CA
     INDEX NAME)
FS   STEREOSEARCH
MF   C12 H13 N O2
LC   STN Files:   CA, CAPLUS
DT.CA  CAplus document type:  Journal
RL.NP  Roles from non-patents:  RACT (Reactant or reagent)

Double bond geometry as shown.
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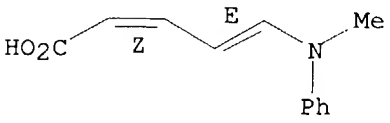


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

```
              1 REFERENCES IN FILE CA (1907 TO DATE)
              1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
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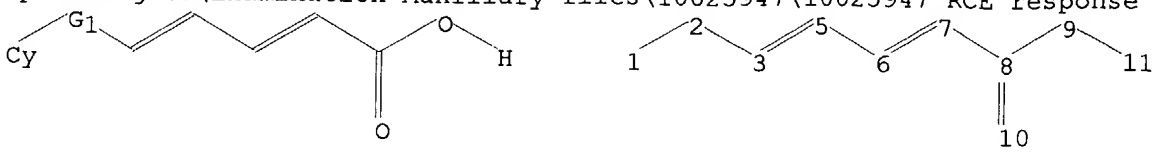
Uploading C:\Examination Auxillary files\10025947\10025947 RCE response 2nd stab.str



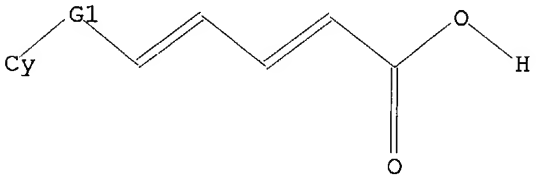

chain nodes :
1 2 3 5 6 7 8 9 10 11
chain bonds :
1-2 2-3 3-5 5-6 6-7 7-8 8-9 8-10 9-11
exact/norm bonds :
1-2 2-3
exact bonds :
3-5 5-6 6-7 7-8 9-11
normalized bonds :
8-9 8-10

G1:S,N,O

Match level :
1:Atom 2:CLASS 3:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS

L15 STRUCTURE UPLOADED

=> d l15
L15 HAS NO ANSWERS
L15 STR




G1 S,N,O

Structure attributes must be viewed using STN Express query preparation.

=> search l15 sss sam
SAMPLE SEARCH INITIATED 07:25:58 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 379 TO ITERATE

100.0% PROCESSED 379 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.01

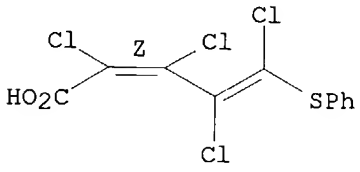
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 6412 TO 8748
PROJECTED ANSWERS: 4 TO 200

L16 4 SEA SSS SAM L15

=> d scan

L16 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Pentadienoic acid, 2,3,4,5-tetrachloro-5-(phenylthio)-, (?,Z)- (9CI)
MF C11 H6 Cl4 O2 S

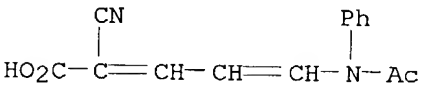
Double bond geometry as described by E or Z.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

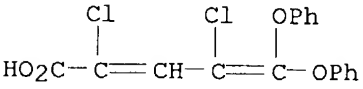
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):4

L16 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Pentadienoic acid, 5-(acetylphenylamino)-2-cyano- (9CI)
MF C14 H12 N2 O3




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

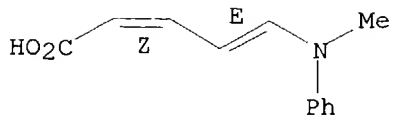
L16 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Pentadienoic acid, 2,4-dichloro-5-oxo-, diphenyl acetal (8CI)
MF C17 H12 Cl2 O4




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L16 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Pentadienoic acid, 5-(methylphenylamino)-, (E,Z)- (9CI)
MF C12 H13 N O2

Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

ALL ANSWERS HAVE BEEN SCANNED

=> e2,4-Pentadienoic acid, 5-(methylphenylamino)-, (E,Z)- /cn
'E' NOT FOUND
The E# entered is not currently defined.

=> e 2,4-Pentadienoic acid, 5-(methylphenylamino)-, (E,Z)- /cn

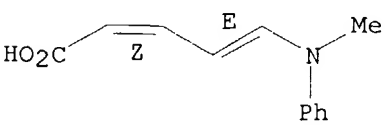
| | | |
|---|---|---|
| E1 | 1 | 2,4-PENTADIENOIC ACID, 5-(METHYL(2-((2-METHYL-1-OXO-2-PROPENYL)OXY)ETHYL)AMINO)-2-(PHENYLSULFONYL)-, ETHYL ESTER, POLYMER WITH METHYL 2-METHYL-2-PROPENOATE/CN |
| E2 | 1 | 2,4-PENTADIENOIC ACID, 5-(METHYLCARBAMOYL)-, ETHYL ESTER, (Z,Z)-/CN |
| E3 | 1 --> | 2,4-PENTADIENOIC ACID, 5-(METHYLPHENYLAMINO)-, (E,Z)-/CN |
| E4 | 1 | 2,4-PENTADIENOIC ACID, 5-(METHYLSULFONYL)-, METHYL ESTER, (E,E)-/CN |
| E5 | 1 | 2,4-PENTADIENOIC ACID, 5-(METHYLTHIO)-, METHYL ESTER, (E,E)-/CN |
| E6 | 1 | 2,4-PENTADIENOIC ACID, 5-(METHYLTHIO)-, METHYL ESTER, (Z,E)-/CN |
| E7 | 1 | 2,4-PENTADIENOIC ACID, 5-(O-AMINOPHENYL)-/CN |
| E8 | 1 | 2,4-PENTADIENOIC ACID, 5-(O-AMINOPHENYL)-2-(2-HYDROXYETHYL)-, Γ-LACTONE/CN |
| E9 | 1 | 2,4-PENTADIENOIC ACID, 5-(O-AMINOPHENYL)-2-(O-METHOXYPHENYL)-, ETHYL ESTER/CN |
| E10 | 1 | 2,4-PENTADIENOIC ACID, 5-(O-CHLOROPHENYL)-/CN |
| E11 | 1 | 2,4-PENTADIENOIC ACID, 5-(O-CHLOROPHENYL)-, (E,E)-/CN |
| E12 | 1 | 2,4-PENTADIENOIC ACID, 5-(O-CHLOROPHENYL)-2-(ETHYLSULFONYL)-/CN |

=> e3
L17 1 "2,4-PENTADIENOIC ACID, 5-(METHYLPHENYLAMINO)-, (E,Z)-"/CN

=> d l17

L17 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 52331-39-2 REGISTRY
CN **2,4-Pentadienoic acid, 5-(methylphenylamino)-, (E,Z)- (9CI)** (CA INDEX NAME)
FS STEREOSEARCH
MF C12 H13 N O2
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: RACT (Reactant or reagent)

Double bond geometry as shown.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> filecaplus
0 FILECAPLUS
L18 0 FILECAPLUS

=> file caplus

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 31.34 | 69.15 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | 0.00 | -2.10 |

FILE 'CAPLUS' ENTERED AT 07:28:43 ON 19 NOV 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.


FILE COVERS 1907 - 19 Nov 2004 VOL 141 ISS 21
FILE LAST UPDATED: 17 Nov 2004 (20041117/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l17
L19 1 L17

=> d l19

L19 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1974:425306 CAPLUS
DN 81:25306
TI Synthesis and thermal splitting of 2-phenyl-6-(4-phenylmethylaminobutadien-1-yl)fulvene
AU Porshnev, Yu. N.; Tereshchenko, E. M.; Churkina, V. A.
CS Nauchno-Issled. Inst. Org. Poluprod. Krasitelei, Moscow, USSR
SO Zhurnal Organicheskoi Khimii (1974), 10(4), 881
CODEN: ZORKAE; ISSN: 0514-7492
DT Journal
LA Russian

=> d l19 ti fbib abs

L19 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis and thermal splitting of 2-phenyl-6-(4-phenylmethylaminobutadien-1-yl)fulvene
AN 1974:425306 CAPLUS
DN 81:25306
TI Synthesis and thermal splitting of 2-phenyl-6-(4-phenylmethylaminobutadien-1-yl)fulvene
AU Porshnev, Yu. N.; Tereshchenko, E. M.; Churkina, V. A.
CS Nauchno-Issled. Inst. Org. Poluprod. Krasitelei, Moscow, USSR
SO Zhurnal Organicheskoi Khimii (1974), 10(4), 881
CODEN: ZORKAE; ISSN: 0514-7492
DT Journal
LA Russian
GI For diagram(s), see printed CA Issue.
AB Condensation of Na 1-phenylcyclo-pentadienide with PhNMeCH:CHCH:CHCHO gave a mixture of anti-(I) and syn-fulvenes (II), containing 2% 2-phenylazulene. 1-Phenylazulene was not present in the products, which was explained by the more difficult ring formation from II than I.

=> logoff hold

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 4.05 | 73.20 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | -0.70 | -2.80 |

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 07:29:33 ON 19 NOV 2004

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 07:34:02 ON 19 NOV 2004
FILE 'CAPLUS' ENTERED AT 07:34:02 ON 19 NOV 2004
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 4.49 | 73.64 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | -0.70 | -2.80 |

=> file reg

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 4.49 | 73.64 |

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

| | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | -0.70 | -2.80 |

FILE 'REGISTRY' ENTERED AT 07:34:10 ON 19 NOV 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.


Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 17 NOV 2004 HIGHEST RN 783276-57-3
DICTIONARY FILE UPDATES: 17 NOV 2004 HIGHEST RN 783276-57-3

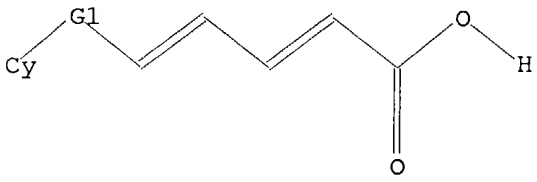
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> d l11
L11 HAS NO ANSWERS
L11 STR




G1 O,S,N,CH2

Structure attributes must be viewed using STN Express query preparation.

=> search l11 sss full
FULL SEARCH INITIATED 07:34:30 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 8696 TO ITERATE

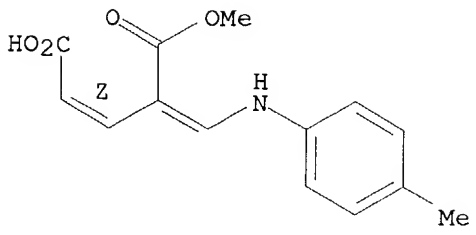
100.0% PROCESSED 8696 ITERATIONS 137 ANSWERS
SEARCH TIME: 00.00.01

L20 137 SEA SSS FUL L11

=> d scan

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Pentenedioic acid, 4-[[(4-methylphenyl)amino]methylene]-, 5-methyl ester, (?,Z)- (9CI)
MF C14 H15 N O4

Double bond geometry as described by E or Z.

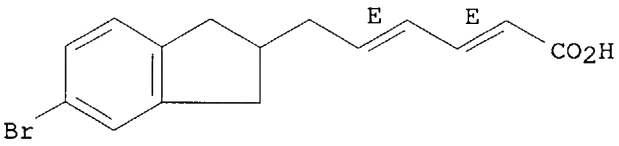



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-(5-bromo-2,3-dihydro-1H-inden-2-yl)-, (E,E)- (9CI)
MF C15 H15 Br O2

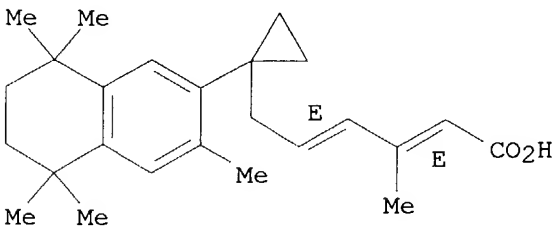
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 3-methyl-6-[1-(5,6,7,8-tetrahydro-3,5,5,8,8-pentamethyl-2-naphthalenyl)cyclopropyl]-, (2E,4E)- (9CI)
MF C25 H34 O2

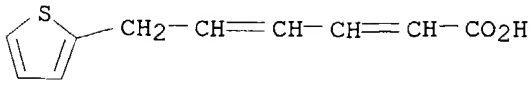
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-(2-thienyl)- (8CI)

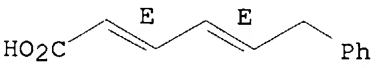
MF C10 H10 O2 S



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-phenyl-, (E,E)- (9CI)
MF C12 H12 O2

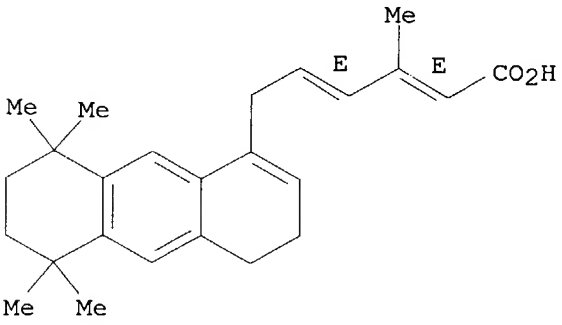
Double bond geometry as shown.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-(3,4,5,6,7,8-hexahydro-5,5,8,8-tetramethyl-1-anthracenyl)-3-methyl-, (2E,4E)- (9CI)
MF C25 H32 O2

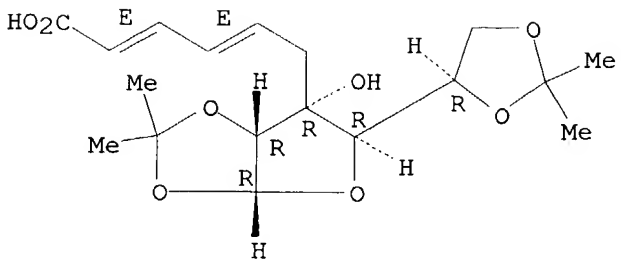
Double bond geometry as shown.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

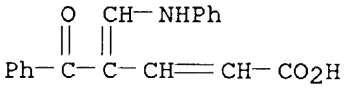
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN α-D-Allofuranose, 3-C-[(2E,4E)-5-carboxy-2,4-pentadienyl]-1,2:5,6-bis-O-(1-methylethylidene)- (9CI)
MF C18 H26 O8

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



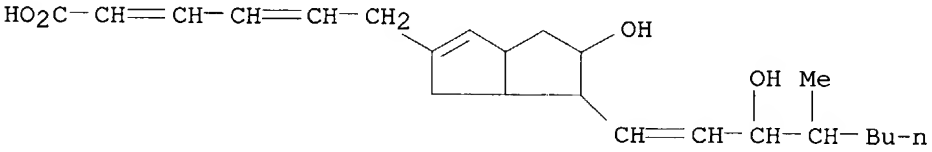
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Pentadienoic acid, 4-benzoyl-5-(phenylamino)- (9CI)
MF C18 H15 N O3



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

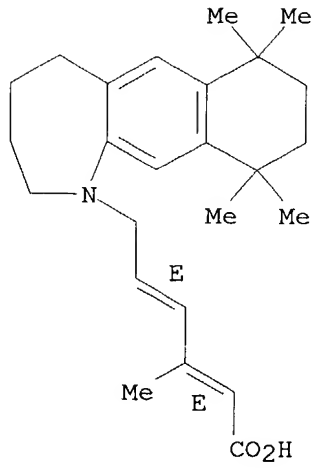
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-[1,3a,4,5,6,6a-hexahydro-5-hydroxy-6-(3-hydroxy-4-methyl-1-octenyl)-2-pentalenyl]- (9CI)
MF C23 H34 O4



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 3-methyl-6-(2,3,4,5,7,8,9,10-octahydro-7,7,10,10-tetramethyl-1H-naphth[2,3-b]azepin-1-yl)-, (2E,4E)- (9CI)
MF C25 H35 N O2

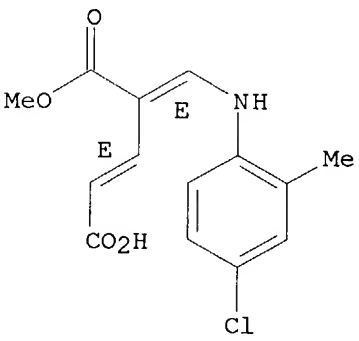
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Pentenedioic acid, 4-[[(4-chloro-2-methylphenyl)amino]methylene]-, 5-methyl ester, (2E,4E)- (9CI)
MF C14 H14 Cl N O4

Double bond geometry as shown.

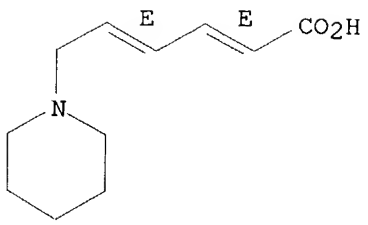



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-(1-piperidinyl)-, hydrochloride, (E,E)- (9CI)
MF C11 H17 N O2 . Cl H

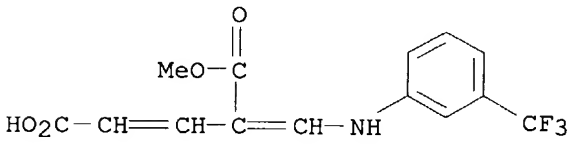
Double bond geometry as shown.



● HCl

**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

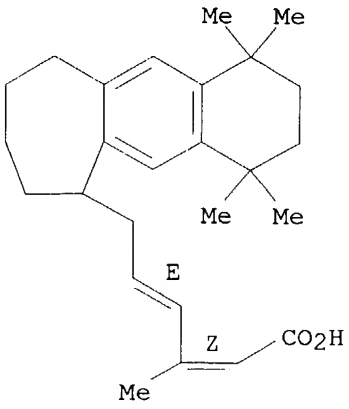
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Pentenedioic acid, 4-[[[3-(trifluoromethyl)phenyl]amino]methylene]-, 5-methyl ester (9CI)
MF C14 H12 F3 N O4



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

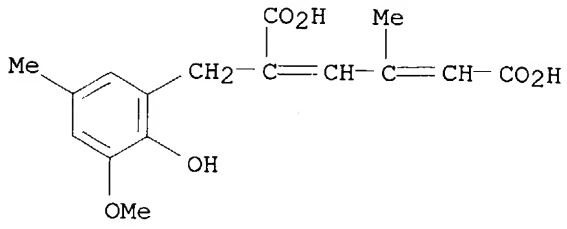
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 3-methyl-6-(2,3,4,6,7,8,9,10-octahydro-1,1,4,4-tetramethyl-1H-cyclohepta[b]naphthalen-6-yl)-, (2Z,4E)- (9CI)
MF C26 H36 O2

Double bond geometry as shown.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

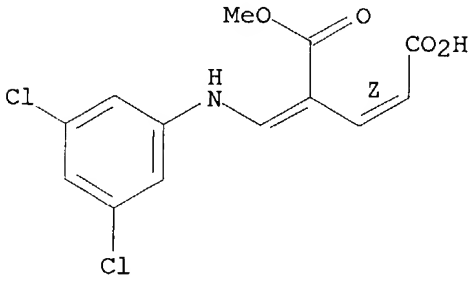
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienedioic acid, 2-[(2-hydroxy-3-methoxy-5-methylphenyl)methyl]-4-methyl- (9CI)
MF C16 H18 O6



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

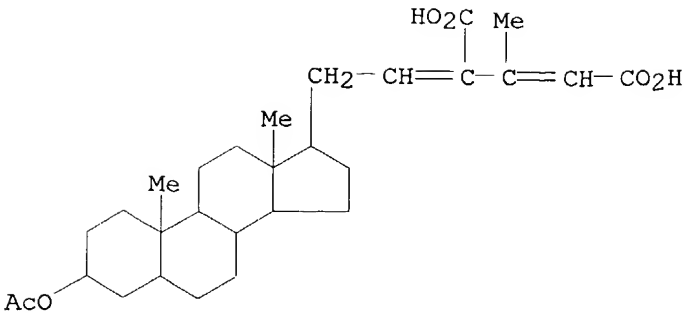
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Pentenedioic acid, 4-[[(3,5-dichlorophenyl)amino]methylene]-, 5-methyl ester, (?,Z)- (9CI)
MF C13 H11 Cl2 N O4

Double bond geometry as described by E or Z.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Pentenedioic acid, 4-[(3β,5β)-3-(acetyloxy)pregnan-21-ylidene]-3-methyl-, (Z,?)- (9CI)
MF C29 H42 O6

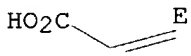


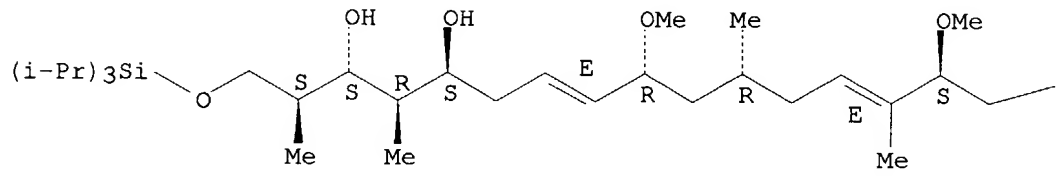
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-[(2S,4R,5R,6R)-6-[(1R,4S,5E,8R,10R,11E,14S,15R,16S,17S)-14,16-dihydroxy-4,10-dimethoxy-1,5,8,15,17-pentamethyl-18-[[tris(1-methylethyl)silyl]oxy]-5,11-octadecadienyl]-2-(4-methoxyphenyl)-5-methyl-1,3-dioxan-4-yl]-, (2E,4E)- (9CI)
MF C52 H88 O10 Si

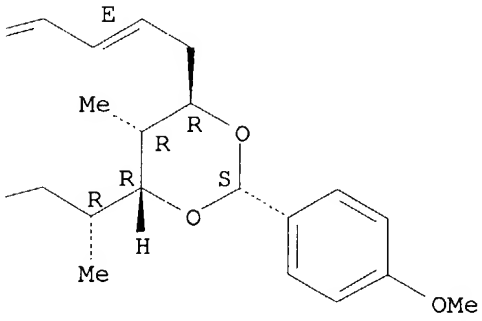
Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



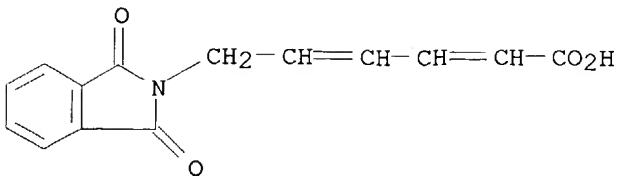


PAGE 1-B



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

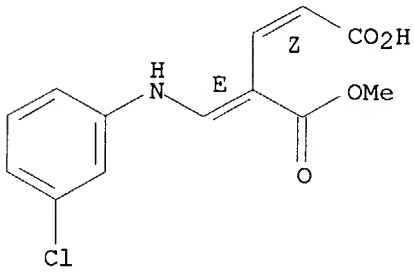
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Isoindolinesorbic acid, 1,3-dioxo- (8CI)
MF C14 H11 N O4



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Pentenedioic acid, 4-[[(3-chlorophenyl)amino]methylene]-, 5-methyl ester, (E,Z)- (9CI)
MF C13 H12 Cl N O4

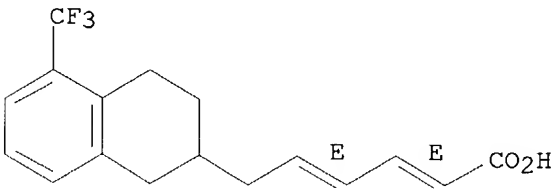
Double bond geometry as shown.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-[1,2,3,4-tetrahydro-5-(trifluoromethyl)-2-naphthalenyl]-, (E,E)- (9CI)
MF C17 H17 F3 O2

Double bond geometry as shown.

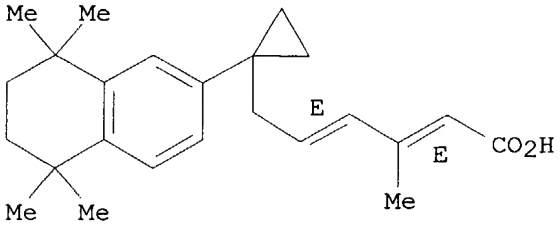


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 3-methyl-6-[1-(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)cyclopropyl]-, (2E,4E)- (9CI)
MF C24 H32 O2

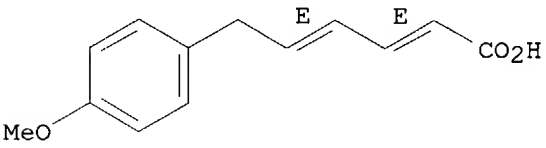
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

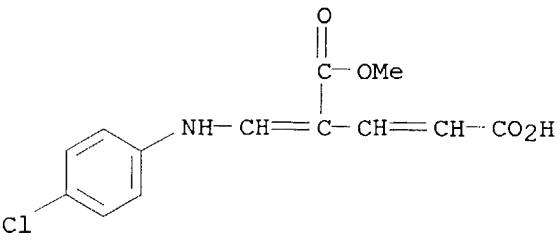
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-(4-methoxyphenyl)-, (E,E)- (9CI)
MF C13 H14 O3

Double bond geometry as shown.



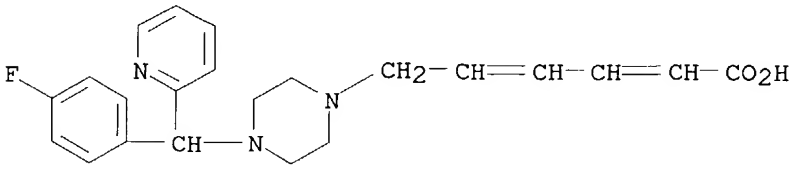

**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Pentenedioic acid, 4-[[(4-chlorophenyl)amino]methylene]-, 5-methyl ester (9CI)
MF C13 H12 Cl N O4



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

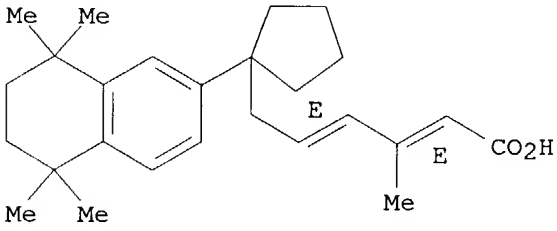
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-[4-[(4-fluorophenyl)-2-pyridinylmethyl]-1-piperazinyl]-, dihydrochloride (9CI)
MF C22 H24 F N3 O2 . 2 Cl H



●2 HCl

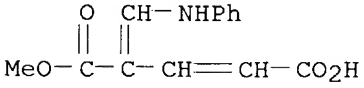
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 3-methyl-6-[1-(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)cyclopentyl]-, (2E,4E)- (9CI)
MF C26 H36 O2

Double bond geometry as shown.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

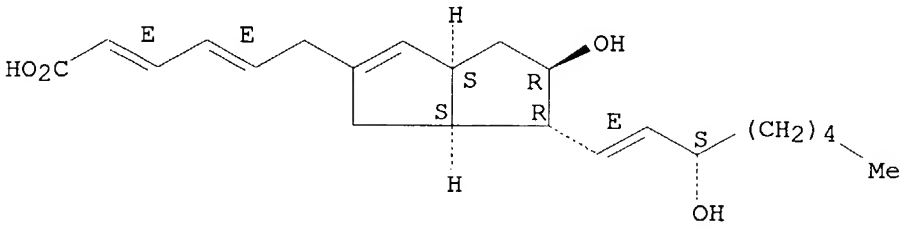
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Pentenedioic acid, 4-[(phenylamino)methylene]-, 5-methyl ester (9CI)
MF C13 H13 N O4



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-[1,3a,4,5,6,6a-hexahydro-5-hydroxy-6-(3-hydroxy-1-octenyl)-2-pentalenyl]-, [3aS-[2(2E,4E),3aα,5β,6α(1E,3R*),6aα]]- (9CI)
MF C22 H32 O4

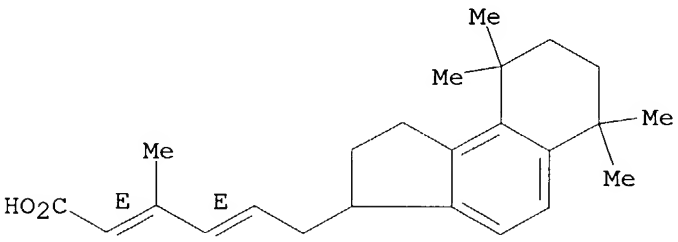
Absolute stereochemistry.
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-(2,3,6,7,8,9-hexahydro-6,6,9,9-tetramethyl-1H-benz[e]inden-3-yl)-3-methyl-, (2E,4E)- (9CI)
MF C24 H32 O2

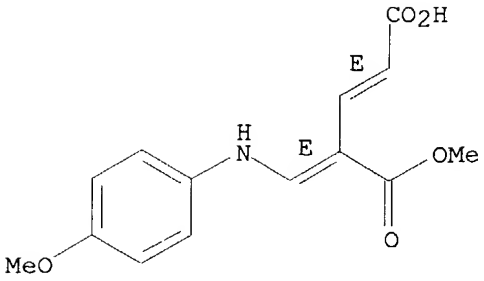
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

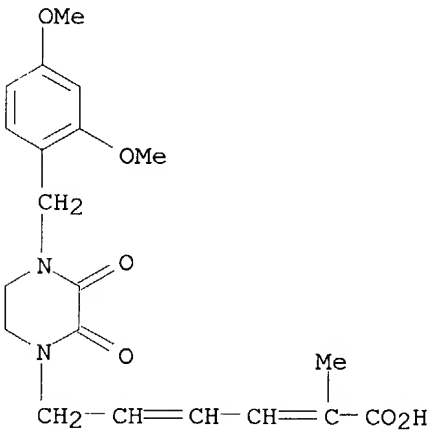
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Pentenedioic acid, 4-[[(4-methoxyphenyl)amino]methylene]-, 5-methyl ester, (2E,4E)- (9CI)
MF C14 H15 N O5

Double bond geometry as shown.



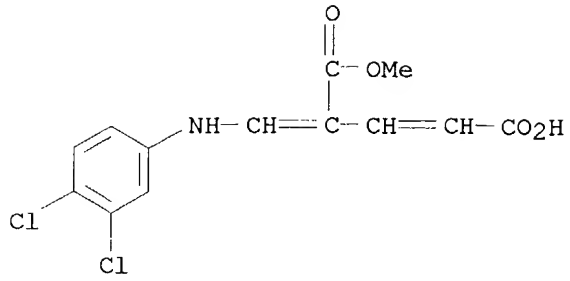
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-[4-[(2,4-dimethoxyphenyl)methyl]-2,3-dioxo-1-piperazinyl]-2-methyl- (9CI)
MF C20 H24 N2 O6



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

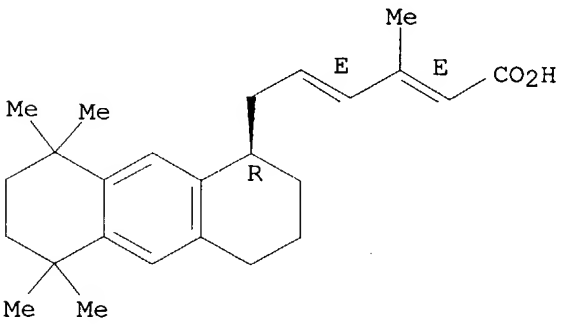
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Pentenedioic acid, 4-[[(3,4-dichlorophenyl)amino]methylene]-, 5-methyl ester (9CI)
MF C13 H11 Cl2 N O4



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 3-methyl-6-[(1R)-1,2,3,4,5,6,7,8-octahydro-5,5,8,8-tetramethyl-1-anthracenyl]-, (2E,4E)-(+)- (9CI)
MF C25 H34 O2

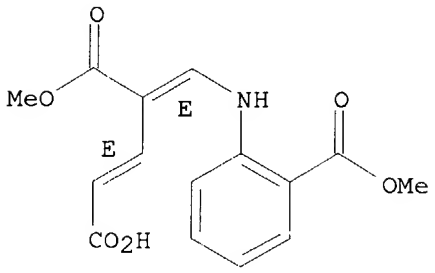
Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Pentenedioic acid, 4-[[[2-(methoxycarbonyl)phenyl]amino]methylene]-, 5-methyl ester, (2E,4E)- (9CI)
MF C15 H15 N O6

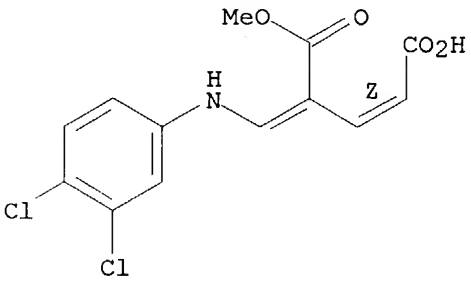
Double bond geometry as shown.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Pentenedioic acid, 4-[[(3,4-dichlorophenyl)amino]methylene]-, 5-methyl ester, (?,Z)- (9CI)
MF C13 H11 Cl2 N O4

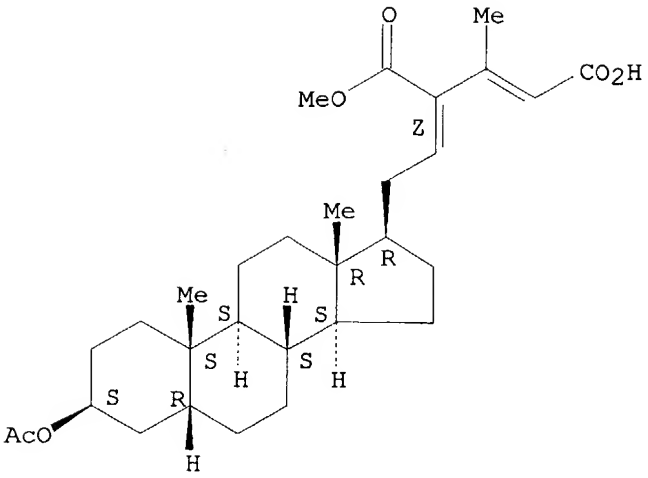
Double bond geometry as described by E or Z.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Pentenedioic acid, 4-[(3β,5β)-3-(acetyloxy)pregnan-21-ylidene]-3-methyl-, 5-methyl ester, (?,Z)- (9CI)
MF C30 H44 O6

Absolute stereochemistry.
Double bond geometry as described by E or Z.

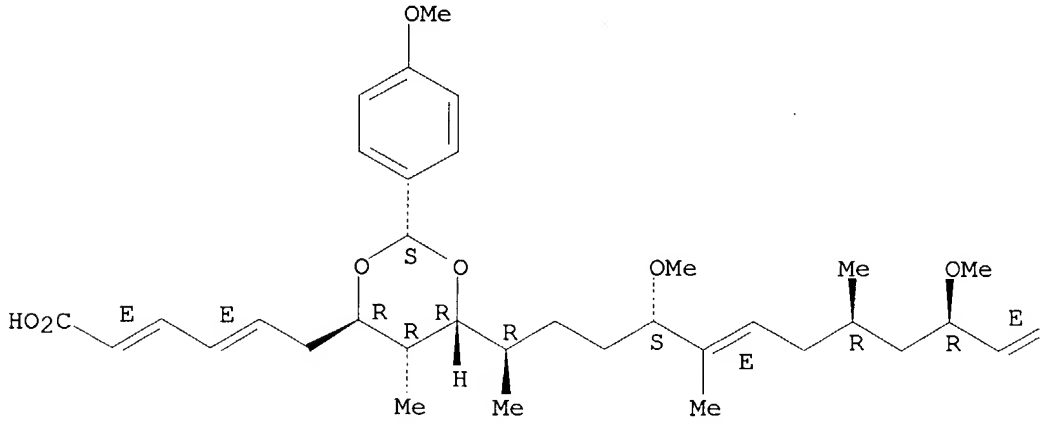


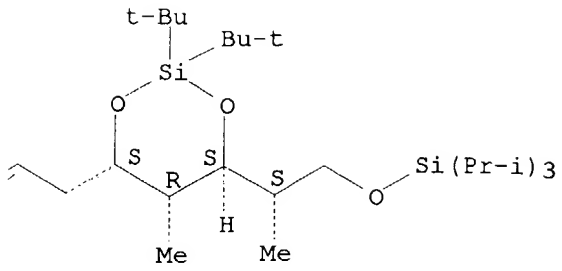
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-[(2S,4R,5R,6R)-6-[(1R,4S,5E,8R,10R,11E)-13-[(4S,5R,6S)-2,2-bis(1,1-dimethylethyl)-5-methyl-6-[(1S)-1-methyl-2-[[tris(1-methylethyl)silyl]oxy]ethyl]-1,3-dioxa-2-silacyclohex-4-yl]-4,10-dimethoxy-1,5,8-trimethyl-5,11-tridecadienyl]-2-(4-methoxyphenyl)-5-methyl-1,3-dioxan-4-yl]-, (2E,4E)- (9CI)
MF C60 H104 O10 Si2

Absolute stereochemistry.
Double bond geometry as shown.



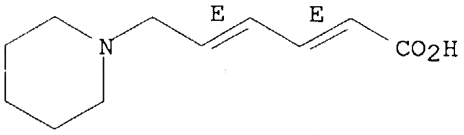





**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-(1-piperidinyl)-, (E,E)- (9CI)
MF C11 H17 N O2
CI COM

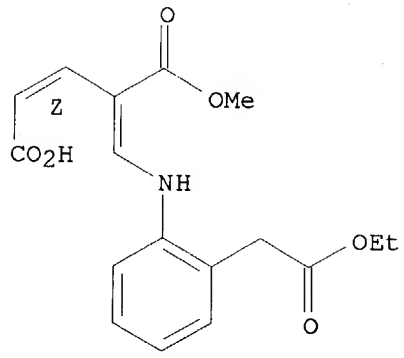
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

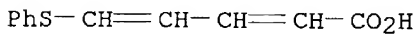
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Pentenedioic acid, 4-[[[2-(2-ethoxy-2-oxoethyl)phenyl]amino]methylene]-, 5-methyl ester, (?,Z)- (9CI)
MF C17 H19 N O6

Double bond geometry as described by E or Z.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

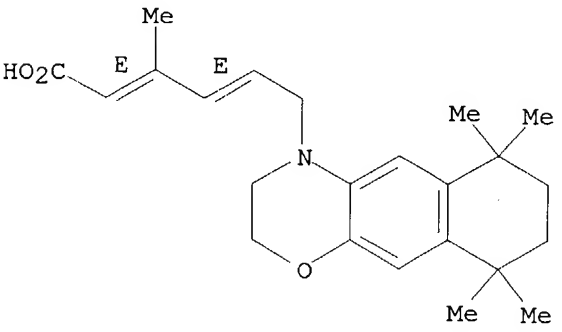
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Pentadienoic acid, 5-(phenylthio)- (9CI)
MF C11 H10 O2 S



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-(2,3,6,7,8,9-hexahydro-6,6,9,9-tetramethyl-4H-naphth[2,3-b]-1,4-oxazin-4-yl)-3-methyl-, (2E,4E)- (9CI)
MF C23 H31 N O3

Double bond geometry as shown.

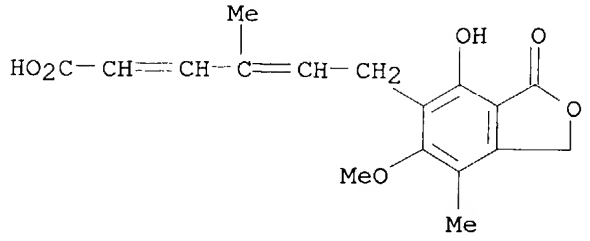


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

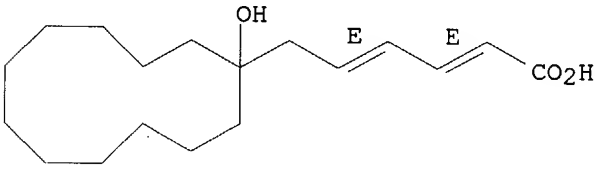
IN 5-Phthalansorbic acid, 4-hydroxy-6-methoxy-γ,7-dimethyl-3-oxo- (8CI)
MF C17 H18 O6



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-(1-hydroxycyclododecyl)-, (E,E)- (9CI)
MF C18 H30 O3

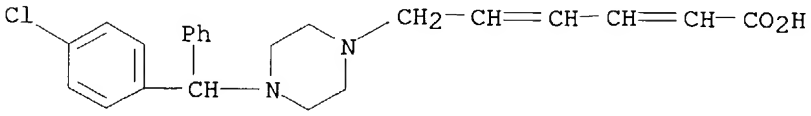
Double bond geometry as shown.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

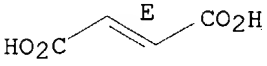
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-[4-[(4-chlorophenyl)phenylmethyl]-1-piperazinyl]-, (2E)-2-butenedioate (1:1) (9CI)
MF C23 H25 Cl N2 O2 . C4 H4 O4

CM 1



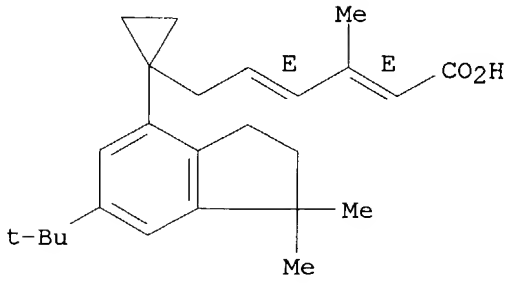
CM 2

Double bond geometry as shown.



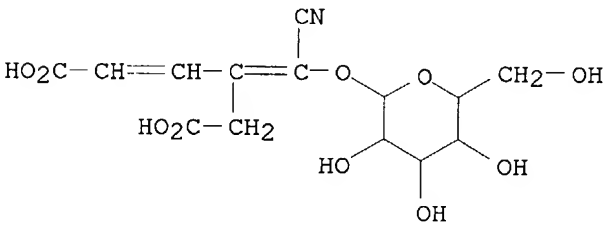
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-[1-[6-(1,1-dimethylethyl)-2,3-dihydro-1,1-dimethyl-1H-inden-4-yl]cyclopropyl]-3-methyl-, (2E,4E)- (9CI)
MF C25 H34 O2

Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

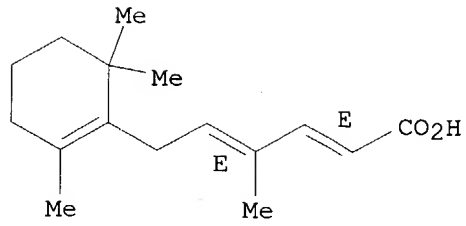
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Hexenedioic acid, 4-[cyano(β-D-glucopyranosyloxy)methylene]-, (2E,4E)- (9CI)
MF C14 H17 N O10




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1-Cyclohexene-1-sorbic acid, γ,2,6,6-tetramethyl- (6CI)
MF C16 H24 O2

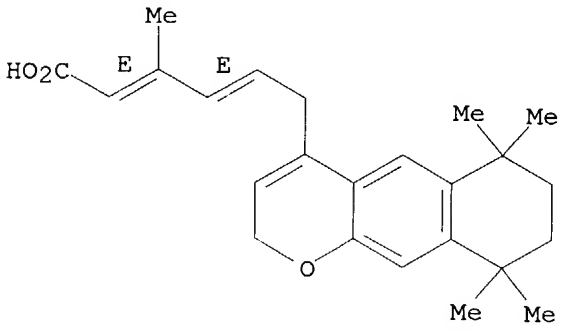
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 3-methyl-6-(6,7,8,9-tetrahydro-6,6,9,9-tetramethyl-2H-naphtho[2,3-b]pyran-4-yl)-, (2E,4E)- (9CI)
MF C24 H30 O3

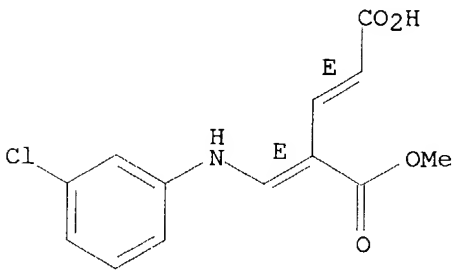
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

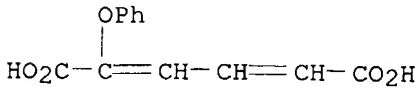
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Pentenedioic acid, 4-[[(3-chlorophenyl)amino]methylene]-, 5-methyl ester, (2E,4E)- (9CI)
MF C13 H12 Cl N O4

Double bond geometry as shown.



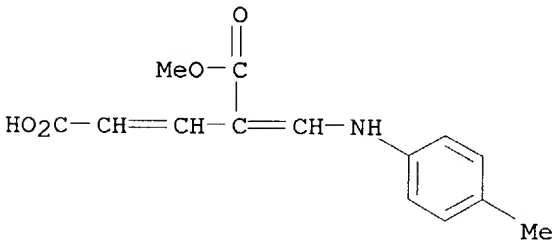
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienedioic acid, 2-phenoxy- (9CI)
MF C12 H10 O5



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

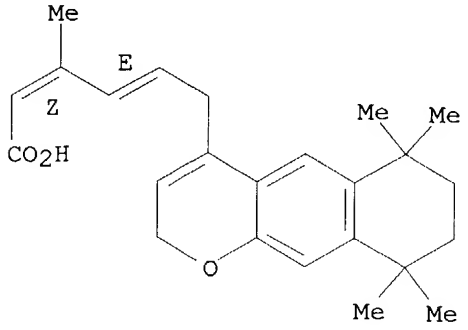
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Pentenedioic acid, 4-[[(4-methylphenyl)amino]methylene]-, 5-methyl ester (9CI)
MF C14 H15 N O4



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 3-methyl-6-(6,7,8,9-tetrahydro-6,6,9,9-tetramethyl-2H-naphtho[2,3-b]pyran-4-yl)-, (2Z,4E)- (9CI)
MF C24 H30 O3

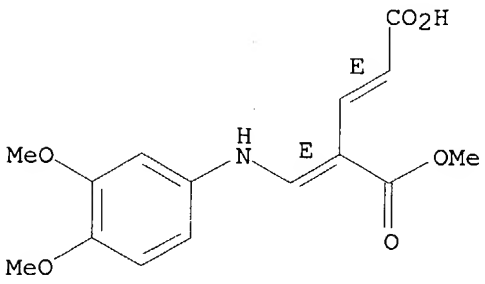
Double bond geometry as shown.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Pentenedioic acid, 4-[[(3,4-dimethoxyphenyl)amino]methylene]-, 5-methyl ester, (2E,4E)- (9CI)
MF C15 H17 N O6

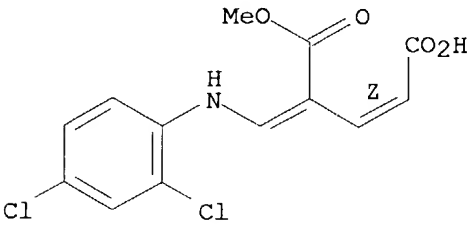
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Pentenedioic acid, 4-[[(2,4-dichlorophenyl)amino]methylene]-, 5-methyl ester, (?,Z)- (9CI)
MF C13 H11 Cl2 N O4

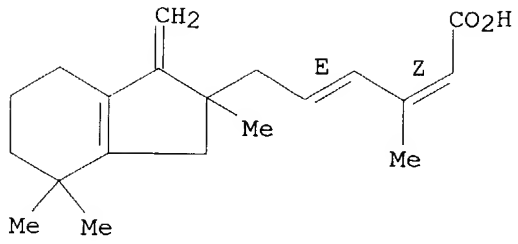
Double bond geometry as described by E or Z.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-(2,3,4,5,6,7-hexahydro-2,4,4-trimethyl-1-methylene-1H-inden-2-yl)-3-methyl-, (Z,E)- (9CI)
MF C20 H28 O2

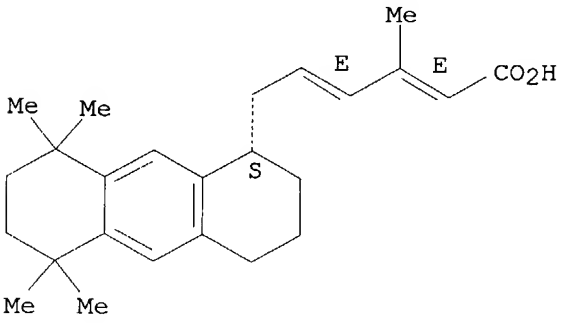
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

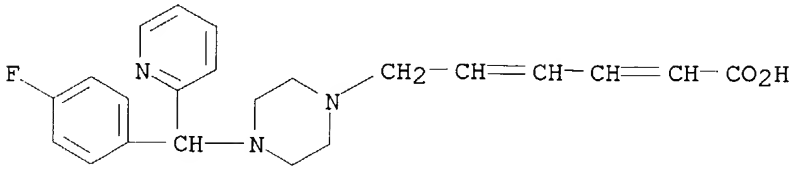
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 3-methyl-6-[(1S)-1,2,3,4,5,6,7,8-octahydro-5,5,8,8-tetramethyl-1-anthracenyl]-, (2E,4E)-(-)- (9CI)
MF C25 H34 O2

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

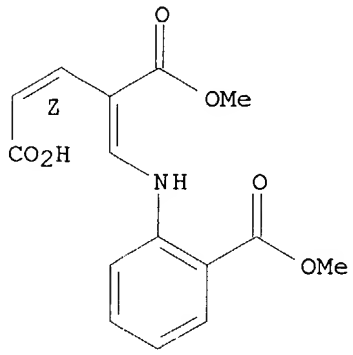
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-[4-[(4-fluorophenyl)-2-pyridinylmethyl]-1-piperazinyl]- (9CI)
MF C22 H24 F N3 O2
CI COM




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Pentenedioic acid, 4-[[[2-(methoxycarbonyl)phenyl]amino]methylene]-, 5-methyl ester, (?,Z)- (9CI)
MF C15 H15 N O6

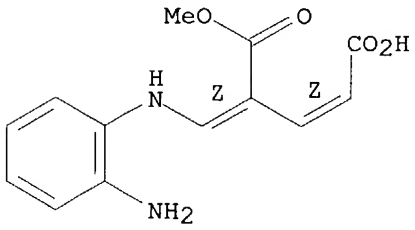
Double bond geometry as described by E or Z.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Pentenedioic acid, 4-[[(2-aminophenyl)amino]methylene]-, 5-methyl ester, (Z,Z)- (9CI)
MF C13 H14 N2 O4

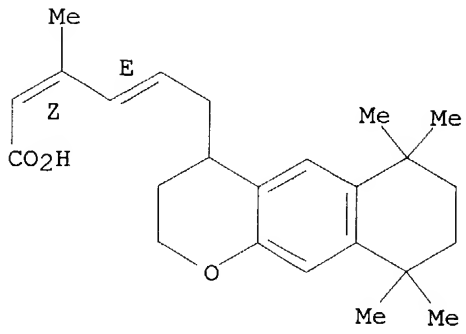
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

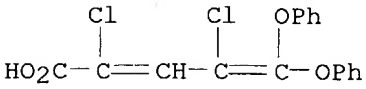
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-(3,4,6,7,8,9-hexahydro-6,6,9,9-tetramethyl-2H-naphtho[2,3-b]pyran-4-yl)-3-methyl-, (2Z,4E)- (9CI)
MF C24 H32 O3

Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Pentadienoic acid, 2,4-dichloro-5-oxo-, diphenyl acetal (8CI)
MF C17 H12 Cl2 O4

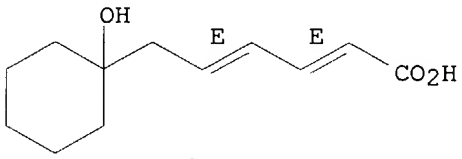



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

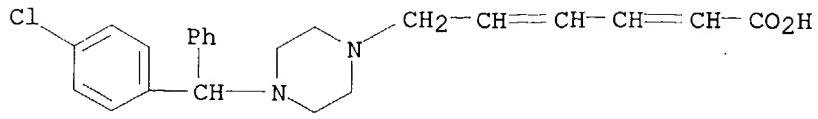
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-(1-hydroxycyclohexyl)-, (E,E)- (9CI)
MF C12 H18 O3

Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

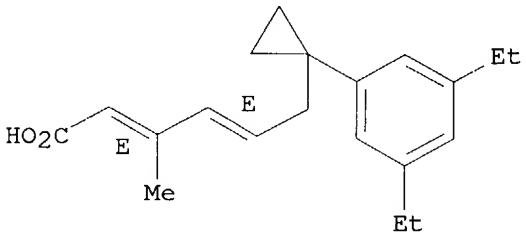
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-[4-[(4-chlorophenyl)phenylmethyl]-1-piperazinyl]-
(9CI)
MF C23 H25 Cl N2 O2
CI COM



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

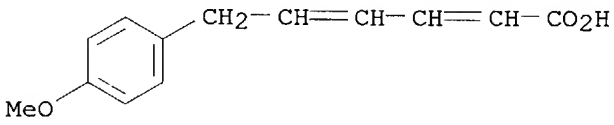
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-[1-(3,5-diethylphenyl)cyclopropyl]-3-methyl-, (2E,4E)- (9CI)
MF C20 H26 O2

Double bond geometry as shown.



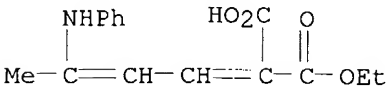
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-(4-methoxyphenyl)- (9CI)
MF C13 H14 O3



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

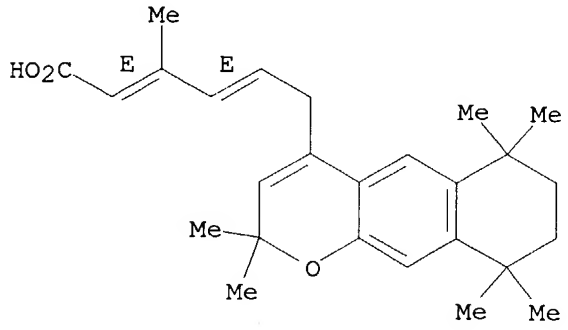
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Malonic acid, (3-anilino-2-butenylidene)-, ethyl ester (6CI)
MF C15 H17 N O4



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 3-methyl-6-(6,7,8,9-tetrahydro-2,2,6,6,9,9-hexamethyl-2H-naphtho[2,3-b]pyran-4-yl)-, (2E,4E)- (9CI)
MF C26 H34 O3

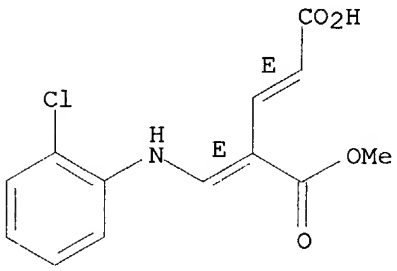
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Pentenedioic acid, 4-[[(2-chlorophenyl)amino]methylene]-, 5-methyl ester, (2E,4E)- (9CI)
MF C13 H12 Cl N O4

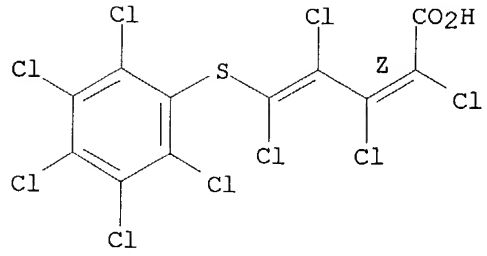
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

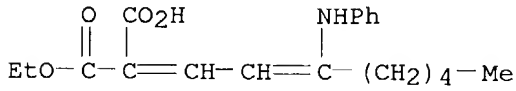
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Pentadienoic acid, 2,3,4,5-tetrachloro-5-[(pentachlorophenyl)thio]-, (?,Z)- (9CI)
MF C11 H Cl9 O2 S

Double bond geometry as described by E or Z.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

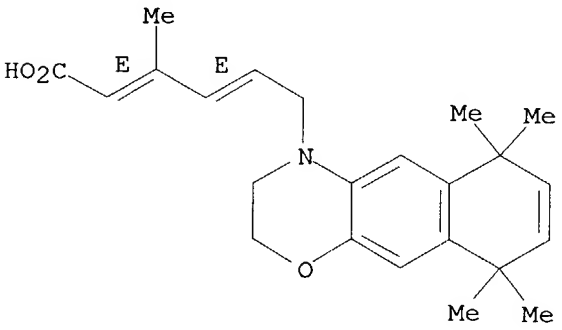
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Malonic acid, (3-anilino-2-octenylidene)-, ethyl ester (6CI)
MF C19 H25 N O4



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 3-methyl-6-(2,3,6,9-tetrahydro-6,6,9,9-tetramethyl-4H-naphth[2,3-b]-1,4-oxazin-4-yl)-, (2E,4E)- (9CI)
MF C23 H29 N O3

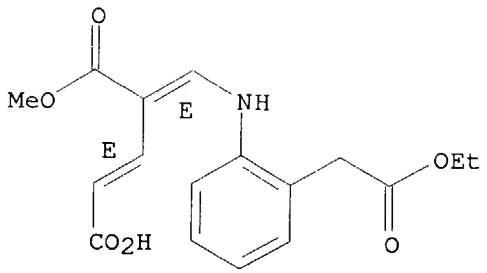
Double bond geometry as shown.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Pentenedioic acid, 4-[[[2-(2-ethoxy-2-oxoethyl)phenyl]amino]methylene]-, 5-methyl ester, (2E,4E)- (9CI)
MF C17 H19 N O6

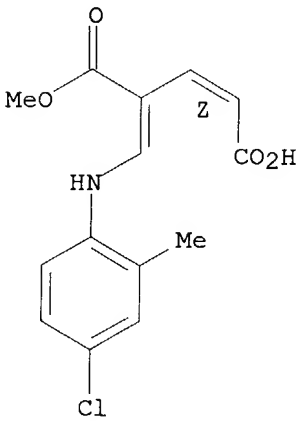
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Pentenedioic acid, 4-[[(4-chloro-2-methylphenyl)amino]methylene]-, 5-methyl ester, (?,Z)- (9CI)
MF C14 H14 Cl N O4

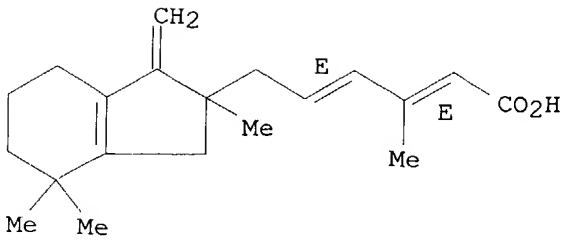
Double bond geometry as described by E or Z.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-(2,3,4,5,6,7-hexahydro-2,4,4-trimethyl-1-methylene-1H-inden-2-yl)-3-methyl-, (E,E)- (9CI)
MF C20 H28 O2

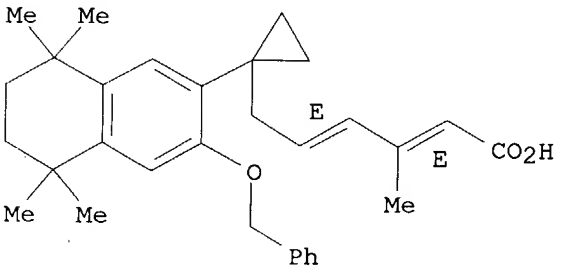
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 3-methyl-6-[1-[5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-3-(phenylmethoxy)-2-naphthalenyl]cyclopropyl]-, (E,E)- (9CI)
MF C31 H38 O3

Double bond geometry as shown.

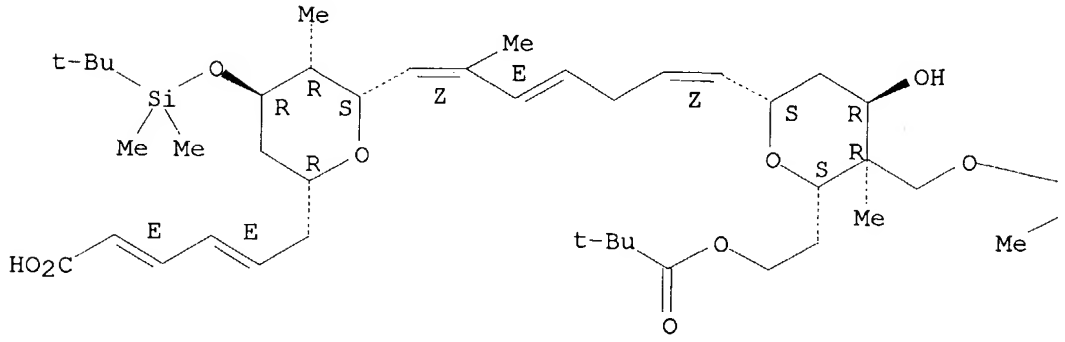



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

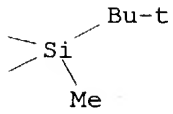
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-[(2R,4R,5R,6S)-4-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-6-[(1Z,3E,6Z)-7-[(2S,4R,5R,6S)-5-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-6-[2-(2,2-dimethyl-1-oxopropoxy)ethyl]tetrahydro-4-hydroxy-5-methyl-2H-pyran-2-yl]-2-methyl-1,3,6-heptatrienyl]tetrahydro-5-methyl-2H-pyran-2-yl]-, (2E,4E)- (9CI)
MF C46 H80 O9 Si2

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



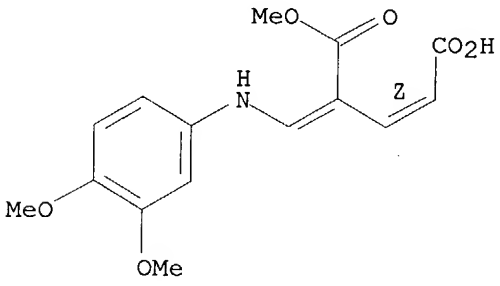
PAGE 1-B



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Pentenedioic acid, 4-[[(3,4-dimethoxyphenyl)amino]methylene]-, 5-methyl ester, (?,Z)- (9CI)
MF C15 H17 N O6

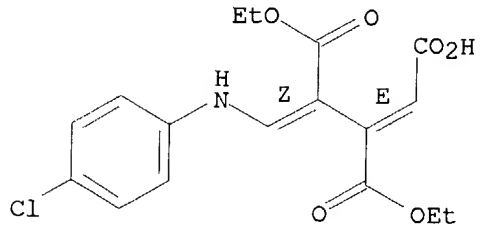
Double bond geometry as described by E or Z.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1,3-Butadiene-1,2,3-tricarboxylic acid, 4-[(4-chlorophenyl)amino]-, 2,3-diethyl ester, (Z,E)- (9CI)
MF C17 H18 Cl N O6

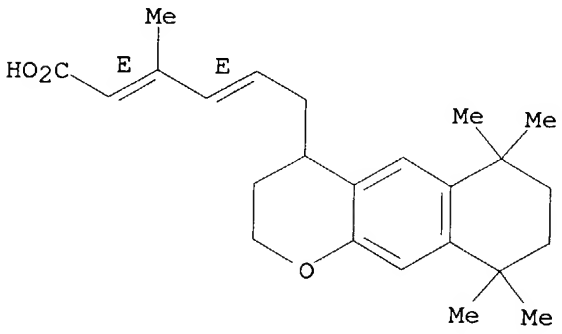
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

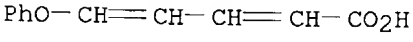
L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Hexadienoic acid, 6-(3,4,6,7,8,9-hexahydro-6,6,9,9-tetramethyl-2H-naphtho[2,3-b]pyran-4-yl)-3-methyl-, (2E,4E)- (9CI)
MF C24 H32 O3

Double bond geometry as shown.



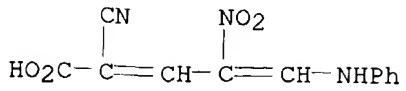

**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Pentadienoic acid, 5-phenoxy- (8CI, 9CI)
MF C11 H10 O3




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L20 137 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Pentadienoic acid, 5-anilino-2-cyano-4-nitro-, sodium salt (7CI)
MF C12 H9 N3 O4 . Na




HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> save temp l20 raw1stab/a
ANSWER SET L20 HAS BEEN SAVED AS 'RAW1STAB/A'

=> e 2,4-Hexadienoic acid, 6-(1-piperidinyl)-, (E,E)-/cn

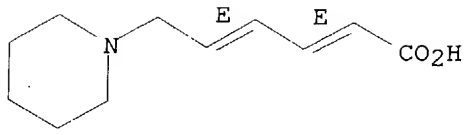
| | | |
|---|---|---|
| E1 | 1 | 2,4-HEXADIENOIC ACID, 6-(1-PIPERAZINYL)-, ETHYL ESTER/CN |
| E2 | 1 | 2,4-HEXADIENOIC ACID, 6-(1-PIPERAZINYL)-, ETHYL ESTER, MONOHYDROCHLORIDE/CN |
| E3 | 1 --> | 2,4-HEXADIENOIC ACID, 6-(1-PIPERIDINYL)-, (E,E)-/CN |
| E4 | 1 | 2,4-HEXADIENOIC ACID, 6-(1-PIPERIDINYL)-, ETHYL ESTER/CN |
| E5 | 1 | 2,4-HEXADIENOIC ACID, 6-(1-PIPERIDINYL)-, ETHYL ESTER, (E,E)-/CN |
| E6 | 1 | 2,4-HEXADIENOIC ACID, 6-(1-PIPERIDINYL)-, ETHYL ESTER, HYDROCHLORIDE/CN |
| E7 | 1 | 2,4-HEXADIENOIC ACID, 6-(1-PIPERIDINYL)-, HYDROCHLORIDE, (E,E)-/CN |
| E8 | 1 | 2,4-HEXADIENOIC ACID, 6-(10-(ACETYLAMINO)-3,4,5,6,7,8-HEXAHYDRO-5,5,8,8-TETRAMETHYL-1(2H)-ANTHRACENYLIDENE)-3-METHYL-, (2E,4E,6Z)-/CN |
| E9 | 1 | 2,4-HEXADIENOIC ACID, 6-(10-(ACETYLAMINO)-3,4,5,6,7,8-HEXAHYDRO-5,5,8,8-TETRAMETHYL-1(2H)-ANTHRACENYLIDENE)-3-METHYL-, ETHYL ESTER, (2E,4E,6Z)-/CN |
| E10 | 1 | 2,4-HEXADIENOIC ACID, 6-(12,15,24-TRIMETHYL-3-OXO-2,22,26-TRIOXATRICYCLO(19.3.1.19,13)HEXACOSA-4,6,11,14,16,19-HEXAEN-23-YL)-, 5-METHYL-2-METHYLENEHEXYL ESTER, (1R-(1R*,4E,6E,9S*,13R*,14Z,16E,19Z,21S*/CN |
| E11 | 1 | 2,4-HEXADIENOIC ACID, 6-(12,15,24-TRIMETHYL-3-OXO-24-PHENYL-2,22,26-TRIOXATRICYCLO(19.3.1.19,13)HEXACOSA-4,6,11,14,16,19-HEXAEN-23-YL)-, 5-METHYL-2-METHYLENEHEXYL ESTER, (1R-(1R*,4E,6E,9S*,13R*,14Z,16/CN |
| E12 | 1 | 2,4-HEXADIENOIC ACID, 6-(1H-PURIN-6-YLTHIO)-/CN |

=> e3
L21 1 "2,4-HEXADIENOIC ACID, 6-(1-PIPERIDINYL)-, (E,E)-"/CN

=> d 121

L21 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 758641-56-4 REGISTRY
CN **2,4-Hexadienoic acid, 6-(1-piperidinyl)-, (E,E)- (9CI)** (CA INDEX NAME)
FS STEREOSEARCH
MF C11 H17 N O2
CI COM
SR CA

Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

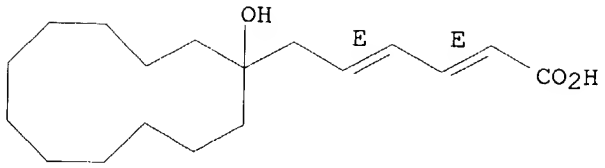
```
=> e 2,4-Hexadienoic acid, 6-(1-hydroxycyclododecyl)-, (E,E)-/cn
E1            1     2,4-HEXADIENOIC ACID, 6-(1-ETHYL-2,3,6,7,8,9-HEXAHYDRO-6,6,9
                    ,9-TETRAMETHYLBENZO(G)QUINOLIN-4(1H)-YLIDENE)-3-METHYL-, (AL
                    L-E)-/CN
E2            1     2,4-HEXADIENOIC ACID, 6-(1-ETHYL-2,3,6,7,8,9-HEXAHYDRO-6,6,9
                    ,9-TETRAMETHYLBENZO(G)QUINOLIN-4(1H)-YLIDENE)-3-METHYL-, ETH
                    YL ESTER, (2E,4E,6E)-/CN
E3            1 --> 2,4-HEXADIENOIC ACID, 6-(1-HYDROXYCYCLODODECYL)-, (E,E)-/CN
E4            1     2,4-HEXADIENOIC ACID, 6-(1-HYDROXYCYCLODODECYL)-, METHYL EST
                    ER, (E,E)-/CN
E5            1     2,4-HEXADIENOIC ACID, 6-(1-HYDROXYCYCLODODECYL)-3-METHYL-, (
                    Z,E)-/CN
E6            1     2,4-HEXADIENOIC ACID, 6-(1-HYDROXYCYCLOHEXYL)-, (E,E)-/CN
E7            1     2,4-HEXADIENOIC ACID, 6-(1-HYDROXYCYCLOHEXYL)-, METHYL ESTER
                    , (E,E)-/CN
E8            1     2,4-HEXADIENOIC ACID, 6-(1-HYDROXYCYCLOHEXYL)-3-METHYL-, MET
                    HYL ESTER, (Z,E)-/CN
E9            1     2,4-HEXADIENOIC ACID, 6-(1-PIPERAZINYL)-, ETHYL ESTER/CN
E10           1     2,4-HEXADIENOIC ACID, 6-(1-PIPERAZINYL)-, ETHYL ESTER, MONOH
                    YDROCHLORIDE/CN
E11           1     2,4-HEXADIENOIC ACID, 6-(1-PIPERIDINYL)-, (E,E)-/CN
E12           1     2,4-HEXADIENOIC ACID, 6-(1-PIPERIDINYL)-, ETHYL ESTER/CN

=> e3
L22           1 "2,4-HEXADIENOIC ACID, 6-(1-HYDROXYCYCLODODECYL)-, (E,E)-"/CN

=> d l22

L22  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   100903-88-6  REGISTRY
CN   2,4-Hexadienoic acid, 6-(1-hydroxycyclododecyl)-, (E,E)- (9CI)
     (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Cyclododecane, 2,4-hexadienoic acid deriv.
FS   STEREOSEARCH
MF   C18 H30 O3
SR   CA
LC   STN Files:   BEILSTEIN*, CA, CAPLUS, CASREACT
         (*File contains numerically searchable property data)
DT.CA  CAplus document type:  Journal
RL.NP  Roles from non-patents:  PREP (Preparation)

Double bond geometry as shown.
```




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 172.86 | 246.50 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | 0.00 | -2.80 |

FILE 'CAPLUS' ENTERED AT 07:41:58 ON 19 NOV 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.


FILE COVERS 1907 - 19 Nov 2004 VOL 141 ISS 21
FILE LAST UPDATED: 17 Nov 2004 (20041117/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l22
L23 2 L22

=> d l23 1-2 ti fbib abs

L23 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
TI Unsaturated carboxylic acid polyenolates. Lithium trienolate of sorbic acid as a d6 synthon. Addition to ketones and unsaturated ketones
AN 1989:134699 CAPLUS
DN 110:134699
TI Unsaturated carboxylic acid polyenolates. Lithium trienolate of sorbic acid as a d6 synthon. Addition to ketones and unsaturated ketones
AU Ballester, Pablo; Costa, Antonio; Garcia-Raso, Angel; Mestres, Ramon
CS Dep. Quim., Univ. Illes Balears, Palma de Mallorca, Spain

SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1988), (10), 2797-803
CODEN: JCPRB4; ISSN: 0300-922X
DT Journal
LA English
OS CASREACT 110:134699
AB Lithiated sorbic acid was treated with R1COR2 [R1 = alkyl, Ph; R2 = alkyl, Ph, alkenyl; R1R2 = (CH2)5, (CH2)11] to give R1CR2C(OH)CH2CH:CHCH:CHCO2H and CH2:CHCH:CHCH[C(OH)R1R2]CO2H. 2-Cyclohexenone gave 4-(3-oxocyclohexyl)-2,5-hexadienoic acid.

L23 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
TI Lithium trienolate of sorbic acid as a d6 synthon. Synthesis of 7-hydroxy-2,4-dienoic acids
AN 1986:129465 CAPLUS
DN 104:129465
TI Lithium trienolate of sorbic acid as a d6 synthon. Synthesis of 7-hydroxy-2,4-dienoic acids
AU Ballester, P.; Costa, A.; Garcia-Raso, A.; Gomez-Solivellas, A.; Mestres, R.
CS Dep. Quim. Org., Univ. Palma de Mallorca, Palma de Mallorca, 07071, Spain
SO Tetrahedron Letters (1985), 26(30), 3625-8
CODEN: TELEAY; ISSN: 0040-4039
DT Journal
LA English
OS CASREACT 104:129465
AB The trienolate, trans-CH2:CHCH:CHCH:C(OLi)2, of sorbic acid is an easily available d6 synthon. Preparation of trans,trans-RC(OH)R1CH2CH:CHCH:CHCO2H from ketones is described.

=> file reg

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 7.74 | 254.24 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | -1.40 | -4.20 |

FILE 'REGISTRY' ENTERED AT 07:45:24 ON 19 NOV 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.


Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 17 NOV 2004 HIGHEST RN 783276-57-3
DICTIONARY FILE UPDATES: 17 NOV 2004 HIGHEST RN 783276-57-3

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

```
=> e 2,4-Hexadienoic acid,
6-(1,2,3,4-tetrahydro-5-(trifluoromethyl)-2-naphthalenyl)-, (E,E)-/cn
E1            1      2,4-HEXADIENOIC ACID, 6-(1,2,3,4-TETRAHYDRO-2-NAPHTHALENYL)-
                     , (E,E)-/CN
E2            1      2,4-HEXADIENOIC ACID, 6-(1,2,3,4-TETRAHYDRO-2-NAPHTHALENYL)-
                     , ETHYL ESTER, (E,E)-/CN
E3            1 --> 2,4-HEXADIENOIC ACID, 6-(1,2,3,4-TETRAHYDRO-5-(TRIFLUOROMETH
                     YL)-2-NAPHTHALENYL)-, (E,E)-/CN
E4            1      2,4-HEXADIENOIC ACID, 6-(1,2,3,6,7,8-HEXAHYDRO-1,1,3,3-TETRA
                     METHYL-5H-BENZ(F)INDEN-5-YLIDENE)-3-METHYL-, (2E,4E,6E)-/CN
E5            1      2,4-HEXADIENOIC ACID, 6-(1,2,3,6,7,8-HEXAHYDRO-1,1,3,3-TETRA
                     METHYL-5H-BENZ(F)INDEN-5-YLIDENE)-3-METHYL-, (2E,4E,6Z)-/CN
E6            1      2,4-HEXADIENOIC ACID, 6-(1,2,3,6,7,8-HEXAHYDRO-1,1,3,3-TETRA
                     METHYL-5H-BENZ(F)INDEN-5-YLIDENE)-3-METHYL-, (2Z,4E,6E)-/CN
E7            1      2,4-HEXADIENOIC ACID, 6-(1,2,3,6,7,8-HEXAHYDRO-1,1,3,3-TETRA
                     METHYL-5H-BENZ(F)INDEN-5-YLIDENE)-3-METHYL-, (ALL-E)-/CN
E8            1      2,4-HEXADIENOIC ACID, 6-(1,2,3,6,7,8-HEXAHYDRO-1,1,3,3-TETRA
                     METHYL-5H-BENZ(F)INDEN-5-YLIDENE)-3-METHYL-, ETHYL ESTER, (2
                     E,4E,6E)-/CN
E9            1      2,4-HEXADIENOIC ACID, 6-(1,2,3,6,7,8-HEXAHYDRO-1,1,3,3-TETRA
                     METHYL-5H-BENZ(F)INDEN-5-YLIDENE)-3-METHYL-, ETHYL ESTER, (2
                     E,4E,6Z)-/CN
E10           1      2,4-HEXADIENOIC ACID, 6-(1,2,3,6,7,8-HEXAHYDRO-1,1,3,3-TETRA
                     METHYL-5H-BENZ(F)INDEN-5-YLIDENE)-3-METHYL-, ETHYL ESTER, (2
                     Z,4E,6E)-/CN
E11           1      2,4-HEXADIENOIC ACID, 6-(1,2,3,6,7,8-HEXAHYDRO-1,1,3,3-TETRA
                     METHYL-5H-BENZ(F)INDEN-5-YLIDENE)-3-METHYL-, ETHYL ESTER, (A
                     LL-E)-/CN
E12           1      2,4-HEXADIENOIC ACID, 6-(1,2,3,7,8,9-HEXAHYDRO-1,1,3,3-TETRA
                     METHYL-6H-BENZ(E)INDEN-6-YLIDENE)-3-METHYL-, (2E,4E,6Z)-/CN

=> e3
L24           1 "2,4-HEXADIENOIC ACID, 6-(1,2,3,4-TETRAHYDRO-5-(TRIFLUOROMETHYL)
                -2-NAPHTHALENYL)-, (E,E)-"/CN

=> d 124

L24  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   148334-33-2  REGISTRY
CN   2,4-Hexadienoic acid, 6-[1,2,3,4-tetrahydro-5-(trifluoromethyl)-2-
     naphthalenyl]-, (E,E)- (9CI)  (CA INDEX NAME)
FS   STEREOSEARCH
MF   C17 H17 F3 O2
SR   CA
LC   STN Files:   CA, CAPLUS, USPATFULL
DT.CA  CAplus document type:  Patent
RL.P   Roles from patents:  PROC (Process)

Double bond geometry as shown.
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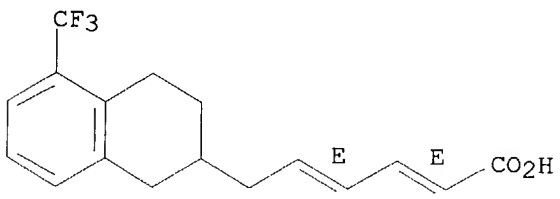


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus
COST IN U.S. DOLLARS

| | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 6.62 | 260.86 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | 0.00 | -4.20 |

FILE 'CAPLUS' ENTERED AT 07:46:17 ON 19 NOV 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.


FILE COVERS 1907 - 19 Nov 2004 VOL 141 ISS 21
FILE LAST UPDATED: 17 Nov 2004 (20041117/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l24
L25 1 L24

=> d l25 ti fbib abs

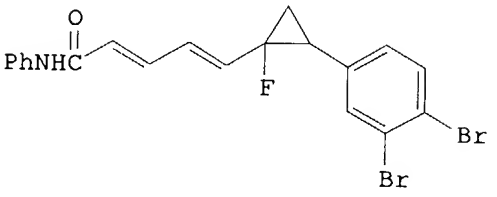
L25 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation of (phenylcyclopropyl)pentadienamides and analogs as pesticides
AN 1993:603161 CAPLUS
DN 119:203161
TI Preparation of (phenylcyclopropyl)pentadienamides and analogs as pesticides
IN Robinson, John Edward; Cockerill, George Stuart
PA Roussel-UCLAF, Fr.
SO Eur. Pat. Appl., 55 pp.
CODEN: EPXXDW
DT Patent
LA French
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | EP 524041 | A2 | 19930120 | EP 1992-401763 | 19920624 |
| | EP 524041 | A3 | 19940406 | | |
| | EP 524041 | B1 | 19950920 | | |

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, PT, SE

| | | | | |
|---|---|---|---|---|
| US 5270343 | A | 19931214 | GB 1991-13624 | 19910625 |
| | | | US 1992-898135 | 19920615 |
| CA 2072054 | AA | 19921226 | GB 1991-13624 | 19910625 |
| | | | CA 1992-2072054 | 19920623 |
| ZA 9204664 | A | 19930628 | GB 1991-13624 | 19910625 |
| | | | ZA 1992-4664 | 19920624 |
| JP 05294912 | A2 | 19931109 | GB 1991-13624 | 19910625 |
| | | | JP 1992-188931 | 19920624 |
| AT 128117 | E | 19951015 | GB 1991-13624 | 19910625 |
| | | | AT 1992-401763 | 19920624 |
| ES 2077375 | T3 | 19951116 | GB 1991-13624 | 19910625 |
| | | | ES 1992-401763 | 19920624 |
| RU 2078076 | C1 | 19970427 | GB 1991-13624 | 19910625 |
| | | | RU 1992-5052350 | 19920624 |
| AU 9218531 | A1 | 19930107 | GB 1991-13624 | 19910625 |
| AU 651217 | B2 | 19940714 | AU 1992-18531 | 19920625 |
| BR 9202403 | A | 19930126 | GB 1991-13624 | 19910625 |
| | | | BR 1992-2403 | 19920625 |
| CN 1073674 | A | 19930630 | GB 1991-13624 | 19910625 |
| | | | CN 1992-108833 | 19920625 |
| HU 63938 | A2 | 19931129 | GB 1991-13624 | 19910625 |
| HU 213030 | B | 19970128 | HU 1992-2122 | 19920625 |
| US 5459149 | A | 19951017 | GB 1991-13624 | 19910625 |
| | | | US 1994-309430 | 19940920 |
| | | | GB 1991-13624 | 19910625 |
| | | | US 1992-898135 | 19920615 |
| | | | US 1993-99146 | 19930729 |

OS MARPAT 119:203161
GI




II

AB Title compds. Q(CH2)a(O)bQ1CR2:CR3CR4:CR5CXNR1Rx [I; Q = mono- or bicyclic aromatic, dihalovinyl, R6C.tplbond.C (R6 = C1-4 alkyl, tri-C1-4-alkylsilyl, halo, H); Q1 = 1,2-substituted cyclopropyl, substituted with C1-3 alkyl, C1-3 haloalkyl, C2-3 alkynyl, and -CN when Q1 = (CH2)7; a = 0, 1; b = 0, 1; R2-R5 = identical or different with at least one being H, the others being H, halo, C1-4 alkyl, C1-4 haloalkyl; X = O, S; R1 = (un)substituted Ph with various organic and inorg. groups; Rx = H, C1-8 alkyl or substituted PhCH2], e.g., II, are prepared Compds. I or their salts are claimed for a variety of pesticidal activities, including arthropodicides, nematocides, molluscicides, and acaricides. Use of compds. I in surgical or therapeutic applications in humans and in animals (e.g., as parasiticides) is also claimed.

=> file reg
COST IN U.S. DOLLARS

| | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|

FULL ESTIMATED COST 6.51 267.37

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE ENTRY TOTAL SESSION

CA SUBSCRIBER PRICE -0.70 -4.90

FILE 'REGISTRY' ENTERED AT 07:51:46 ON 19 NOV 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.


Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 17 NOV 2004 HIGHEST RN 783276-57-3
DICTIONARY FILE UPDATES: 17 NOV 2004 HIGHEST RN 783276-57-3

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

```
=> e 2,4-Pentadienoic acid, 5-phenoxy-/cn
E1            1     2,4-PENTADIENOIC ACID, 5-P-TOLYL-, ETHYL ESTER, (E,E)-/CN
E2            1     2,4-PENTADIENOIC ACID, 5-P-TOLYL-, METHYL ESTER/CN
E3            1 --> 2,4-PENTADIENOIC ACID, 5-PHENOXY-/CN
E4            1     2,4-PENTADIENOIC ACID, 5-PHENOXY-, ETHYL ESTER/CN
E5            1     2,4-PENTADIENOIC ACID, 5-PHENOXY-, METHYL ESTER/CN
E6            2     2,4-PENTADIENOIC ACID, 5-PHENYL-/CN
E7            1     2,4-PENTADIENOIC ACID, 5-PHENYL-, ((2-METHYL-1-OXO-2-PROPENY
                    L)OXY)METHYL ESTER/CN
E8            1     2,4-PENTADIENOIC ACID, 5-PHENYL-, ((2-METHYL-1-OXO-2-PROPENY
                    L)OXY)METHYL ESTER, POLYMER WITH BUTYL 2-METHYL-2-PROPENOATE
                     AND 2-METHYL-2-PROPENOIC ACID/CN
E9            1     2,4-PENTADIENOIC ACID, 5-PHENYL-, (2,4,6-TRIOXO-1,3,5-TRIAZI
                    NE-1,3,5(2H,4H,6H)-TRIYL)TRI-2,1-ETHANEDIYL ESTER/CN
E10           1     2,4-PENTADIENOIC ACID, 5-PHENYL-, (2,4-DICHLOROPHENYL)(DIETH
                    OXYPHOSPHINYL)METHYL ESTER, (2E,4E)-/CN
E11           1     2,4-PENTADIENOIC ACID, 5-PHENYL-, (2-CHLOROPHENYL)(DIETHOXYP
                    HOSPHINYL)METHYL ESTER, (2E,4E)-/CN
E12           1     2,4-PENTADIENOIC ACID, 5-PHENYL-, (2E,4E)-/CN

=> e3
L26           1 "2,4-PENTADIENOIC ACID, 5-PHENOXY-"/CN

=> d l26

L26  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   17629-31-1  REGISTRY
CN   2,4-Pentadienoic acid, 5-phenoxy- (8CI, 9CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C11 H10 O3
LC   STN Files:   BEILSTEIN*, CA, CAPLUS, TOXCENTER, USPATFULL
         (*File contains numerically searchable property data)
DT.CA  CAplus document type:  Journal; Patent
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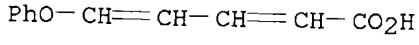
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)
RL.NP Roles from non-patents: PREP (Preparation)



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus
COST IN U.S. DOLLARS

| | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 6.62 | 273.99 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | 0.00 | -4.90 |

FILE 'CAPLUS' ENTERED AT 07:52:20 ON 19 NOV 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.


FILE COVERS 1907 - 19 Nov 2004 VOL 141 ISS 21
FILE LAST UPDATED: 17 Nov 2004 (20041117/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> e 2,4-Pentadienoic acid, 5-phenoxy-/cn
**REGISTRY INITIATED**
Substance data EXPAND from CAS REGISTRY in progress...

| | | |
|---|---|---|
| E1 | 1 | 2,4-PENTADIENOIC ACID, 5-P-TOLYL-, ETHYL ESTER, (E,E)-/CN |
| E2 | 1 | 2,4-PENTADIENOIC ACID, 5-P-TOLYL-, METHYL ESTER/CN |
| E3 | 1 --> | 2,4-PENTADIENOIC ACID, 5-PHENOXY-/CN |
| E4 | 1 | 2,4-PENTADIENOIC ACID, 5-PHENOXY-, ETHYL ESTER/CN |
| E5 | 1 | 2,4-PENTADIENOIC ACID, 5-PHENOXY-, METHYL ESTER/CN |
| E6 | 2 | 2,4-PENTADIENOIC ACID, 5-PHENYL-/CN |
| E7 | 1 | 2,4-PENTADIENOIC ACID, 5-PHENYL-, ((2-METHYL-1-OXO-2-PROPENYL)OXY)METHYL ESTER/CN |
| E8 | 1 | 2,4-PENTADIENOIC ACID, 5-PHENYL-, ((2-METHYL-1-OXO-2-PROPENY |

L)OXY)METHYL ESTER, POLYMER WITH BUTYL 2-METHYL-2-PROPENOATE AND 2-METHYL-2-PROPENOIC ACID/CN

E9 1 2,4-PENTADIENOIC ACID, 5-PHENYL-, (2,4,6-TRIOXO-1,3,5-TRIAZINE-1,3,5(2H,4H,6H)-TRIYL)TRI-2,1-ETHANEDIYL ESTER/CN

E10 1 2,4-PENTADIENOIC ACID, 5-PHENYL-, (2,4-DICHLOROPHENYL)(DIETHOXYPHOSPHINYL)METHYL ESTER, (2E,4E)-/CN

E11 1 2,4-PENTADIENOIC ACID, 5-PHENYL-, (2-CHLOROPHENYL)(DIETHOXYPHOSPHINYL)METHYL ESTER, (2E,4E)-/CN

E12 1 2,4-PENTADIENOIC ACID, 5-PHENYL-, (2E,4E)-/CN

=> l26

L27 3 L26

=> d l27 1-3 ti fbib abs

L27 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

TI Histone deacetylase inhibitors based on alphachalcogenmethylcarbonyl compounds

AN 2003:950999 CAPLUS

DN 140:4783

TI Histone deacetylase inhibitors based on alphachalcogenmethylcarbonyl compounds

IN Lan-Hargest, Hsuan-Yin; Kaufman, Robert J.

PA Beacon Laboratories, Inc., USA

SO PCT Int. Appl., 34 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | WO 2003099789 | A1 | 20031204 | WO 2003-US15838 | 20030521 |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW | | | | |
| | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| | | | | US 2002-382077P | P 20020522 |
| | US 2004023944 | A1 | 20040205 | US 2003-442191 | 20030521 |
| | | | | US 2002-382077P | P 20020522 |

OS MARPAT 140:4783

AB A compound having the formula AY1LY2C:X1CH2X2 with histone deacetylase inhibition activity is prepared wherein A is a cyclic moiety from cycloalkyl, cycloalkenyl, aryl etc.; each of Y1 and Y2 is -CH2-, -O-, -S-, -N(Rc) (Rc is hydrogen, alkyl, alkenyl, alkynyl, alkoxy, hydroxyalkyl, hydroxyl, or haloalkyl) etc.; L is a straight C3-12 chain containing ≥1 double bond and/or ≥1 triple bond; X1 is O or S; and X2 is -OR1, -SR1, or -SeR1, wherein R1 is hydrogen, alkyl, acyl, aryl or aralkyl. Thus, 12 mL of benzylacetone in 100 mL THF was treated with 18.3 mL chlorotrimethylsilane to give 18.1 g 2-((trimethylsilyl)oxy)-4-phenylbut-1-ene, which (8.8 g) was treated with m-chloroperbenzoic acid to give an enol ether epoxide, which was hydrolyzed to give 1-hydroxy-4-phenyl-2-butanone, which was treated with thionyl chloride to give 1-chloro-4-phenyl-2-butanone (.apprx.0.44 g), which was treated with 0.2 mL thioacetic acid to give S-(2-oxo-4-phenyl)butyl thioacetate in 91% purity.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
TI Histone deacetylase inhibitors based on trihalomethylcarbonyl compounds
AN 2003:950971 CAPLUS
DN 139:395619
TI Histone deacetylase inhibitors based on trihalomethylcarbonyl compounds
IN Lan-Hargest, Hsuan-Yin; Kaufman, Robert J.
PA Beacon Laboratories, Inc., USA
SO PCT Int. Appl., 26 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| PI WO 2003099760 | A1 | 20031204 | WO 2003-US15996 | 20030521 |
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| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| | | | US 2002-382075P P | 20020522 |
| US 2004029903 | A1 | 20040212 | US 2003-442175 | 20030521 |
| | | | US 2002-382075P P | 20020522 |

OS MARPAT 139:395619
AB A compound having the formula AY1LY2C:X1CX23 with histone deacetylase inhibition activity is prepared wherein A is cyclic moiety from cycloalkyl, cycloalkenyl, or aryl etc.; each Y1 and Y2 is -O-, -S-, -N(Rc)-C(O)-O- (Rc is hydrogen, alkyl, alkenyl, alkynyl etc.); L is a straight C3-12 chain containing ≥1 double bond and/or ≥1 triple bond; X1 is O or S; X2 is a halogen. Thus, 65.0 g crotonaldehyde was treated with 927 mL of 1M solution of PhMgBr in THF to give 135.88 g 1-phenyl-2-buten-1-ol, which was treated with 2.3 mL concentrated HCl in 2750 mL water at room temperature to give 4-phenyl-3-buten-2-ol, which was treated with 14 mL DMF and 8.2 mL POCl3 to give 8.78 g 5-phenyl-2,4-pentadienal, which was treated with an equal amount of acetic acid and piperidine followed by addition of 1,1,1-trifluoroacetone at room temperature to give 1,1,1-trifluoro-8-phenyl-3,5,7-octatrien-2-one.
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation of phenoxy radicals
AN 1967:516385 CAPLUS
DN 67:116385
TI Preparation of phenoxy radicals
AU Horspool, William M.; Pauson, Peter L.
CS Univ. Strathclyde, Glasgow, UK
SO Monatshefte fuer Chemie (1967), 98(4), 1256-61
CODEN: MOCHAP
DT Journal
LA German
AB The decomposition of β-aryloxypropionyl peroxides was studied. Thus, (PhOCH2CH2CO2)2 decomposed at its m.p. or in boiling C6H12 to (PhOCH2CH2)2

or phenetole, resp., without elimination of C2H4. Similarly, 1,4-dihydro-4-phenoxynaphthoic acid could not be synthesized, but an elimination reaction was observed on treating dehydrobenzene with PhOCH:CHCH:CHCO2Et (I), to give Et 1-naphthoate and PhOH. Treatment of I with MeO2CC.tplbond.CCO2Me gave the hemimellitic ester and PhOH, while with maleic anhydride normal addition to the phenoxycyclohexene derivative was observed.

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=> file reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                          ENTRY      SESSION
FULL ESTIMATED COST                                       13.37       288.22

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                          ENTRY      SESSION
CA SUBSCRIBER PRICE                                       -2.10        -7.00

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STRUCTURE FILE UPDATES:   17 NOV 2004  HIGHEST RN 783276-57-3
DICTIONARY FILE UPDATES:  17 NOV 2004  HIGHEST RN 783276-57-3

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> e 1-Cyclohexene-1-sorbic acid, γ,2,6,6-tetramethyl-/cn
E1            1      1-CYCLOHEXENE-1-SORBALDEHYDE, 4-METHOXY-Γ,2,6,6-TETRAM
                     ETHYL-/CN
E2            1      1-CYCLOHEXENE-1-SORBALDEHYDE, 6-ISOBUTYL-Γ,2,6-TRIMETH
                     YL-/CN
E3            1 --> 1-CYCLOHEXENE-1-SORBIC ACID, Γ,2,6,6-TETRAMETHYL-/CN
E4            1      1-CYCLOHEXENE-1-SORBIC ACID, Γ,2,6,6-TETRAMETHYL-, ETH
                     YL ESTER/CN
E5            1      1-CYCLOHEXENE-1-SORBIC ACID, Γ,2,6,6-TETRAMETHYL-, MET
                     HYL ESTER/CN
E6            1      1-CYCLOHEXENE-1-SUCCINIC ACID/CN
E7            1      1-CYCLOHEXENE-1-SUCCINIC ACID, A-CYANO-6-METHYL-, DIET
                     HYL ESTER/CN
E8            1      1-CYCLOHEXENE-1-SUCCINIC ACID, A-METHYL ESTER/CN
E9            1      1-CYCLOHEXENE-1-SUCCINIC ACID, B-METHYL-/CN
E10           1      1-CYCLOHEXENE-1-SUCCINIC ACID, B-METHYL-, A-METHY
                     L ESTER/CN
E11           1      1-CYCLOHEXENE-1-SUCCINIC ACID, 1-ETHYL ESTER/CN
E12           1      1-CYCLOHEXENE-1-SUCCINIC ACID, 2-METHYL-/CN

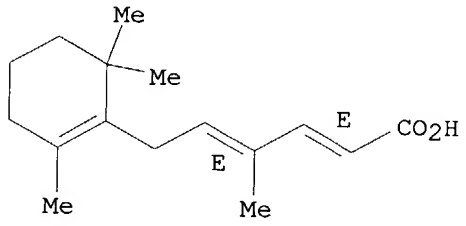
=> e3
```

L28 1 "1-CYCLOHEXENE-1-SORBIC ACID, Γ,2,6,6-TETRAMETHYL-"/CN

=> d l28

L28 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 110252-16-9 REGISTRY
CN **1-Cyclohexene-1-sorbic acid, γ,2,6,6-tetramethyl- (6CI)**
(CA INDEX NAME)
FS STEREOSEARCH
MF C16 H24 O2
SR CAOLD
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: NORL (No role in record)
RL.NP Roles from non-patents: NORL (No role in record)

Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 6.62 | 294.84 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -7.00 |

FILE 'CAPLUS' ENTERED AT 08:01:23 ON 19 NOV 2004
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FILE COVERS 1907 - 19 Nov 2004 VOL 141 ISS 21
FILE LAST UPDATED: 17 Nov 2004 (20041117/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l28
L29 5 L28

=> l28/prep
5 L28
3224633 PREP/RL
L30 0 L28/PREP
(L28 (L) PREP/RL)

=> d l29 1-3 ti fbib abs

L29 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
TI α,β-Unsaturated carboxylic acids and their esters
AN 1959:99382 CAPLUS
DN 53:99382
OREF 53:17880a-e
TI α,β-Unsaturated carboxylic acids and their esters
IN Isler, Otto; Ruegg, Rudolf
PA F. Hoffmann-La Roche & Co. Akt.-Ges.
DT Patent
LA Unavailable
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | DE 949886 | | 19560927 | DE | |

AB ClCH:CHOEt (I) reacts in liquid NH3 with 2 equivs. NaNH2 or LiNH2 to give Na(or K)C.tplbond.COEt which is condensed in the same medium with aldehydes or ketones at a ratio of 1:1 for mono- and 2:1 for dialdehydes and diketones. Hydrolysis with NH4Cl and isomerization of the ethynylcarbinol formed yields the α,β-unsatd. carboxylic ester. If the aldehydes or ketones used contain free OH or CO2H groups, addnl. equivs. of NaNH2 or LiNH2 are required for each functional group. To a solution of NaNH2 in NH3 37.5 g. I is added while stirring and after 10 min. dropwise 31 g. 6-methyl-5-hepten-2-one (II). The mixture is stirred 40 hrs., 45 g. NH4Cl added and the NH3 evaporated After addition of 800 cc. ligroine, filtration and evaporation, distillation of the residue yields 10 g. II and 26 g. 1-ethoxy-3-hydroxy-3,7-dimethyl-6-octen-1-yne, b0.05 80°; its solution in 300 cc. Et2O is shaken 16 hrs. with 100 cc. 10% H2SO4, diluted with H2O and the Et2O layer worked up to yield 21 g. 3,7-dimethyl-2,6-octadienoic acid (III) Et ester which is hydrolyzed with 12.5 g. NaOH and 35 cc. H2O in 350 cc. MeOH to yield 16 g. III, b0.03 90°, n23D 1.4769. Similarly are prepared: 6-(2,6,6-trimethyl-1-cyclohexen-1-yl)-4-methyl-2,4-hexadienoic acid (IV), λ 255 mμ, E1%1cm. 617 (EtOH) [Me ester b0.07 116°, n21D 1,5242, λ 268 mμ, E1%1cm. 608 (EtOH)]; cinnamic acid, m. 125-6°; 2,6,6-trimethyl-2-cyclohexen-1-ylideneacetic acid, m. 53-5° (ligroine), λ 252.5 mμ, E1%1cm. 575 (EtOH); 2-pentenoic acid b10 94°, m. -2°, n22.5D 1.4382, λ 212.5 mμ, E1%1cm. 750 (EtOH), 3-methyl-2-pentenoic acid, b10 99-102°, n22D 1.4556, λ 218 mμ, E1%1cm. 860 (EtOH); β-methylcinnamic acid, b0.05 105-8°, λ 251.5 mμ, E1%1cm. 503 (EtOH); 5,17(20)-pregnadien-3β-ol-21-oic acid, m. 244°, λ 221 mμ, E1%1cm. 330 (EtOH).

L29 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
TI Continuous process for the oxidation of hydrocarbons
AN 1958:103859 CAPLUS
DN 52:103859
OREF 52:18218d-e
TI Continuous process for the oxidation of hydrocarbons
IN Tsyskovskii, V. K.; Shcheglova, Ts. N.; Pylaeva, T. I.; Meshchaninov, S. M.; Soltan, S. G.
DT Patent
LA Unavailable
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | SU 109712 | | 19580527 | SU | |

AB Hydrocarbons are oxidized to carboxylic acids; the acids formed are removed from the cycle and saponified with NaOH in an impeller type mixer. The Na soaps are removed by centrifuging and the unreacted hydrocarbons are returned to the cycle together with fresh hydrocarbons in a volume corresponding to the quantity of soap removed.

L29 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
TI α,β-Unsaturated carboxylic acids and their esters
AN 1958:103858 CAPLUS
DN 52:103858
OREF 52:18218c-d
TI α,β-Unsaturated carboxylic acids and their esters
IN Isler, Otto; Ruegg, Rudolf
PA Hoffmann-La Roche Inc.
DT Patent
LA Unavailable
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | US 2849466 | | 19580826 | US | |

AB See Brit. 772,199 (C.A. 52, 1223g).

=> logoff hold
COST IN U.S. DOLLARS

| | SINCE FILE ENTRY | TOTAL SESSION |
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| FULL ESTIMATED COST | 11.23 | 306.07 |

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

| | SINCE FILE ENTRY | TOTAL SESSION |
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| CA SUBSCRIBER PRICE | -2.10 | -9.10 |

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STN INTERNATIONAL SESSION SUSPENDED AT 08:03:58 ON 19 NOV 2004

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PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
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FILE 'CAPLUS' ENTERED AT 08:31:47 ON 19 NOV 2004

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| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 11.23 | 306.07 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | -2.10 | -9.10 |

=> file reg

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
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| FULL ESTIMATED COST | 12.11 | 306.95 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
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| CA SUBSCRIBER PRICE | -2.10 | -9.10 |

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STRUCTURE FILE UPDATES: 17 NOV 2004 HIGHEST RN 783276-57-3
DICTIONARY FILE UPDATES: 17 NOV 2004 HIGHEST RN 783276-57-3

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

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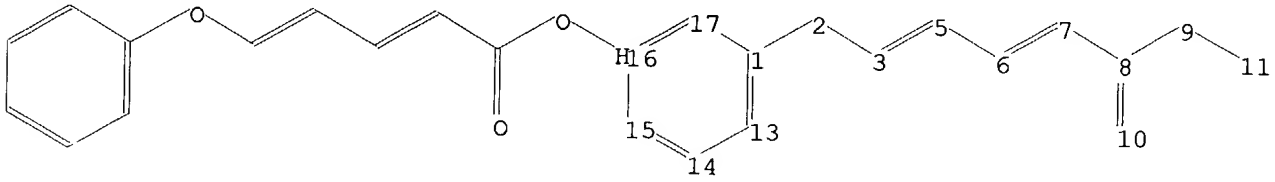


chain nodes :
2 3 5 6 7 8 9 10 11
ring nodes :
1 13 14 15 16 17
chain bonds :
1-2 2-3 3-5 5-6 6-7 7-8 8-9 8-10 9-11
ring bonds :
1-13 1-17 13-14 14-15 15-16 16-17
exact/norm bonds :

1-2 2-3
exact bonds :
3-5 5-6 6-7 7-8 9-11
normalized bonds :
1-13 1-17 8-9 8-10 13-14 14-15 15-16 16-17

G1:S,N,O

Match level :
1:Atom 2:CLASS 3:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom

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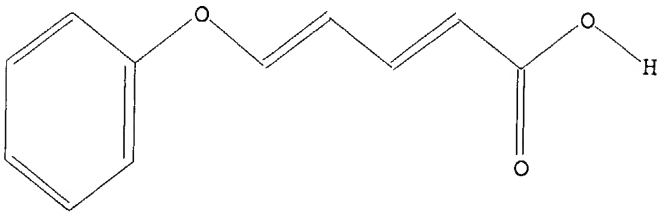


G1 S,N,O

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SAMPLE SCREEN SEARCH COMPLETED - 46 TO ITERATE

100.0% PROCESSED 46 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 514 TO 1326
PROJECTED ANSWERS: 1 TO 80

L32 1 SEA SSS SAM L31

=> d scan

L32 1 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
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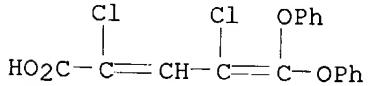
MF C17 H12 Cl2 O4



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

ALL ANSWERS HAVE BEEN SCANNED

=> search l31 sss full
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FULL SCREEN SEARCH COMPLETED - 601 TO ITERATE

100.0% PROCESSED 601 ITERATIONS 5 ANSWERS
SEARCH TIME: 00.00.01

L33 5 SEA SSS FUL L31

=> d scan

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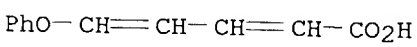
MF C11 H10 O3



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

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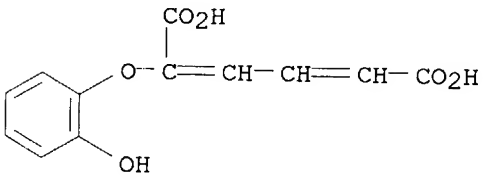
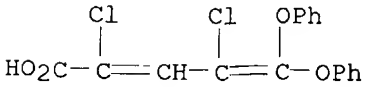
MF C12 H10 O6



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L33 5 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2,4-Pentadienoic acid, 2,4-dichloro-5-oxo-, diphenyl acetal (8CI)
MF C17 H12 Cl2 O4



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

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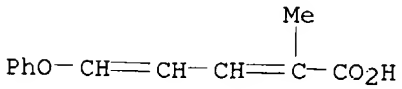

**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

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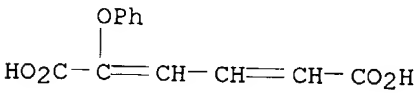
MF C12 H10 O5



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

ALL ANSWERS HAVE BEEN SCANNED

=> logoff hold
COST IN U.S. DOLLARS

| | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 156.68 | 463.63 |

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

| | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | 0.00 | -9.10 |

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 08:35:08 ON 19 NOV 2004

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Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

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* * * * * * * * * *  Welcome to STN International  * * * * * * * * * *

NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
NEWS  2           "Ask CAS" for self-help around the clock
NEWS  3  JUL 12   BEILSTEIN enhanced with new display and select options,
                  resulting in a closer connection to BABS
NEWS  4  AUG 02   IFIPAT/IFIUDB/IFICDB reloaded with new search and display
                  fields
NEWS  5  AUG 02   CAplus and CA patent records enhanced with European and Japan
                  Patent Office Classifications
NEWS  6  AUG 02   The Analysis Edition of STN Express with Discover!
                  (Version 7.01 for Windows) now available
NEWS  7  AUG 27   BIOCOMMERCE: Changes and enhancements to content coverage
NEWS  8  AUG 27   BIOTECHABS/BIOTECHDS: Two new display fields added for legal
                  status data from INPADOC
NEWS  9  SEP 01   INPADOC: New family current-awareness alert (SDI) available
NEWS 10  SEP 01   New pricing for the Save Answers for SciFinder Wizard within
                  STN Express with Discover!
NEWS 11  SEP 01   New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
NEWS 12  SEP 27   STANDARDS will no longer be available on STN
NEWS 13  SEP 27   SWETSCAN will no longer be available on STN
NEWS 14  OCT 28   KOREAPAT now available on STN
NEWS 15  NOV 18   Current-awareness alerts, saved answer sets, and current
                  search transcripts to be affected by CERAB, COMPUAB, ELCOM,
                  and SOLIDSTATE reloads

NEWS EXPRESS  OCTOBER 29 CURRENT WINDOWS VERSION IS V7.01A, CURRENT
              MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
NEWS HOURS    STN Operating Hours Plus Help Desk Availability
NEWS INTER    General Internet Information
NEWS LOGIN    Welcome Banner and News Items
NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
NEWS WWW      CAS World Wide Web Site (general information)

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  * * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 10:43:21 ON 19 NOV 2004

=> file reg
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.42       0.42

FILE 'REGISTRY' ENTERED AT 10:44:13 ON 19 NOV 2004
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```

STRUCTURE FILE UPDATES: 17 NOV 2004 HIGHEST RN 783276-57-3
DICTIONARY FILE UPDATES: 17 NOV 2004 HIGHEST RN 783276-57-3

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

```
=> e 7,7-diphenyl-2,4,6-heptatrienoic acid/cn
E1            1     7,7-DINORYUEHCHUKENE/CN
E2            1     7,7-DIOCTYL-7-STANNA-2,6,8-TRIOXASPIRO(3.5)NONANE/CN
E3            0 --> 7,7-DIPHENYL-2,4,6-HEPTATRIENOIC ACID/CN
E4            1     7,7-DIPHENYL-6-HEPTENE-2,5-DIONE/CN
E5            1     7,7-DIPHENYL-6-OXABICYCLO(3.2.0)HEPT-1-ENE/CN
E6            1     7,7-DIPHENYL-7H-BENZO(2,3-G)CHROMENE/CN
E7            1     7,7-DIPHENYLBICYCLO(3.2.0)HEPT-2-EN-6-ONE/CN
E8            1     7,7-DIPHENYLBICYCLO(3.2.0)HEPTAN-6-ONE/CN
E9            1     7,7-DIPHENYLDIHYDROMORPHINONE/CN
E10           1     7,7-DIPHENYLDIHYDROMORPHINONE HYDROCHLORIDE/CN
E11           1     7,7-DIPHENYLHEPT-6-ENOIC ACID/CN
E12           1     7,7-DIPHENYLHEPTA-4,6-DIENOIC ACID/CN

=> e12
L1            1 "7,7-DIPHENYLHEPTA-4,6-DIENOIC ACID"/CN

=> d l1

L1   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   134613-72-2  REGISTRY
CN   4,6-Heptadienoic acid, 7,7-diphenyl- (9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   7,7-Diphenylhepta-4,6-dienoic acid
FS   3D CONCORD
MF   C19 H18 O2
SR   CA
LC   STN Files:   CA, CAPLUS
DT.CA  CAplus document type:  Journal
RL.NP  Roles from non-patents:  PREP (Preparation); RACT (Reactant or reagent)
```



```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

             1 REFERENCES IN FILE CA (1907 TO DATE)
             1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                               7.46       7.88
```

FILE 'CAPLUS' ENTERED AT 10:45:44 ON 19 NOV 2004
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FILE COVERS 1907 - 19 Nov 2004 VOL 141 ISS 22
FILE LAST UPDATED: 18 Nov 2004 (20041118/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l1
L2 1 L1

=> d l2 ti fbib abs

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
TI Photocycloeliminations of bicyclic cyclobutanones. I. Solvent effects on distribution of products
AN 1991:448482 CAPLUS
DN 115:48482
TI Photocycloeliminations of bicyclic cyclobutanones. I. Solvent effects on distribution of products
AU Lee-Ruff, E.; Hayes, I. E. E.; Kazarians-Moghaddam, H.
CS Dep. Chem., York Univ., Toronto, ON, M3J 1P3, Can.
SO Structural Chemistry (1991), 2(2), 175-83
CODEN: STCHES; ISSN: 1040-0400
DT Journal
LA English
OS CASREACT 115:48482
AB The extent of photocycloelimination in α-arylcyclobutanones can be controlled by solvent effects indicative of reversible oxacarbene formation. Substituent effects at C-3 as well as ring size of the adjacent fused ring play important roles in these reactions. The efficient photocycloelimination of such bicyclic ketones in nonpolar aprotic solvents constitutes a route to terminally unsatd. esters in an overall two-step metathesis reaction the mechanism of which is discussed.

=> d l2 it

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
IT Carboxylic acids, preparation
RL: PREP (Preparation)
(2-step metathesis reaction involving bicyclic cyclobutanones as route to)
IT Double decomposition
(as stereospecific road to unsatd. esters, mechanism and solvent effects on)

IT Solvent effect
Substituent effect
(on photocycloelimination of bicyclic cyclobutanones)
IT Ring cleavage
(photochem., of bicyclic cyclobutanones, solvent effect and mechanism of)
IT Carboxylic acids, esters
RL: PREP (Preparation)
(unsatd., esters, 2-step metathesis reaction involving bicyclic cyclobutanones as route to)
IT 67093-47-4, 8,8-Diphenylbicyclo[4.2.0]oct-2-en-7-one
RL: PRP (Properties)
(hydrogenation and photocycloelimination of)
IT 64-17-5, Ethanol, uses and miscellaneous 67-56-1, Methanol, uses and miscellaneous
RL: USES (Uses)
(photolysis of bicyclocyclobutanones in presence of, unsatd. esters by)
IT 94385-09-8, 7,7-Diphenylheptanoic acid
RL: PRP (Properties)
(photolysis of bicyclocyclobutanones in presence of, unsatd. esters by)
IT 87274-24-6P **134613-72-2P**, 7,7-Diphenylhepta-4,6-dienoic acid 134613-92-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrogenation of)
IT 134613-71-1P 134613-90-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of)
IT 4173-55-1P, 8,8-Diphenylbicyclo[4.2.0]octan-7-one 87274-16-6P, 7,7-Diphenylbicyclo[3.2.0]heptan-6-one
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and photocycloelimination of)
IT 87274-22-4P, Methyl 8,8-diphenyl-7-octenoate 122213-92-7P, 7,7-Diphenylhept-6-enoic acid 134613-70-0P 134613-73-3P, Ethyl 8,8-diphenyloctanoate 134613-74-4P 134613-91-5P 134613-93-7P 134679-05-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
IT 5452-28-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation, hydrogenation, and photocycloelimination of)
IT 87274-21-3P, Methyl 7,7-diphenylhept-6-enoate
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation, saponification, and hydrogenation of)

=> file caplus

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 5.06 | 12.94 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -0.70 | -0.70 |

FILE 'CAPLUS' ENTERED AT 10:48:44 ON 19 NOV 2004

FILE COVERS 1907 - 19 Nov 2004 VOL 141 ISS 22
FILE LAST UPDATED: 18 Nov 2004 (20041118/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> file reg

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 0.44 | 13.38 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | 0.00 | -0.70 |

FILE 'REGISTRY' ENTERED AT 10:48:53 ON 19 NOV 2004
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STRUCTURE FILE UPDATES: 17 NOV 2004 HIGHEST RN 783276-57-3
DICTIONARY FILE UPDATES: 17 NOV 2004 HIGHEST RN 783276-57-3

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> e 5,5-diphenyl-2,4-pentadienoic acid/cn

| | | |
|---|---|---|
| E1 | 1 | 5,5-DIPHENYL-2,4-IMIDAZOLIDINEDIONE/CN |
| E2 | 1 | 5,5-DIPHENYL-2,4-PENTADIENAL/CN |
| E3 | 0 --> | 5,5-DIPHENYL-2,4-PENTADIENOIC ACID/CN |
| E4 | 1 | 5,5-DIPHENYL-2,4-PENTADIENYLIDENE-4,4'-BIS(N,N-DIETHYL-M-TOLUIDINE)/CN |
| E5 | 1 | 5,5-DIPHENYL-2,5-DIHYDRO-2-FURANONE/CN |
| E6 | 1 | 5,5-DIPHENYL-2-(2'-PIPERIDINOETHYL)-1,3-DIOXOLAN-4-ONE/CN |
| E7 | 1 | 5,5-DIPHENYL-2-(2'-PIPERIDINOETHYL)-1,3-DIOXOLAN-4-ONE HYDROCHLORIDE/CN |
| E8 | 1 | 5,5-DIPHENYL-2-(2-PIPERIDINOETHYL)-1,3-DIOXOLAN-4-ONE HYDROC |

```
                    HLORIDE/CN
E9              1   5,5-DIPHENYL-2-(P-TOLYLTHIOCARBAMOYL)GLYCOCYAMIDINE/CN
E10             1   5,5-DIPHENYL-2-(PHENYLTHIOCARBAMOYL)GLYCOCYAMIDINE/CN
E11             1   5,5-DIPHENYL-2-CYCLOPENTENE/CN
E12             1   5,5-DIPHENYL-2-ETHOXYOXAZOLIDIN-4-ONE/CN

=> logoff hold
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY     SESSION
FULL ESTIMATED COST                                         1.68       15.06

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                           ENTRY     SESSION
CA SUBSCRIBER PRICE                                         0.00       -0.70

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:51:31 ON 19 NOV 2004

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 10:54:10 ON 19 NOV 2004
FILE 'REGISTRY' ENTERED AT 10:54:10 ON 19 NOV 2004
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COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY     SESSION
FULL ESTIMATED COST                                         1.68       15.06

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                           ENTRY     SESSION
CA SUBSCRIBER PRICE                                         0.00       -0.70

=> e 2-Pentenedioic acid, 4-(((2-(methoxycarbonyl)phenyl)amino)methylene)-,
5-methyl ester, (?,Z)-/cn
E1              1      2-PENTENEDIOIC ACID, 4-(((2-(2-ETHOXY-2-OXOETHYL)PHENYL)AMIN
                       O)METHYLENE)-, 5-METHYL ESTER, (?,Z)-/CN
E2              1      2-PENTENEDIOIC ACID, 4-(((2-(ACETYLAMINO)-1,1-DIMETHYLETHYL)
                       METHYLAMINO)METHYLENE)-, DIETHYL ESTER, (E,E)-/CN
E3              0 --> 2-PENTENEDIOIC ACID, 4-(((2-(METHOXYCARBONYL)PHENYL)AMINO)ME
                       THYLENE)-,     5-METHYL ESTER, (?,Z)-/CN
E4              1      2-PENTENEDIOIC ACID, 4-(((2-(METHOXYCARBONYL)PHENYL)AMINO)ME
                       THYLENE)-, 5-METHYL ESTER, (2E,4E)-/CN
E5              1      2-PENTENEDIOIC ACID, 4-(((2-(METHOXYCARBONYL)PHENYL)AMINO)ME
                       THYLENE)-, 5-METHYL ESTER, (?,Z)-/CN
E6              1      2-PENTENEDIOIC ACID, 4-(((2-AMINOPHENYL)AMINO)METHYLENE)-, 5
                       -METHYL ESTER, (Z,Z)-/CN
E7              1      2-PENTENEDIOIC ACID, 4-(((2-CHLOROPHENYL)AMINO)METHYLENE)-,
                       5-METHYL ESTER, (2E,4E)-/CN
E8              1      2-PENTENEDIOIC ACID, 4-(((2-CHLOROPHENYL)AMINO)METHYLENE)-,
                       5-METHYL ESTER, (?,Z)-/CN
E9              1      2-PENTENEDIOIC ACID, 4-(((2-HYDROXY-1-PHENYLETHYL)AMINO)METH
                       YLENE)-, DIMETHYL ESTER/CN
E10             1      2-PENTENEDIOIC ACID, 4-(((2-METHOXY-2-OXOETHYL)AMINO)METHYLE
```

NE)-, DIETHYL ESTER, (2E,4Z)-/CN

E11 1 2-PENTENEDIOIC ACID, 4-(((2-METHOXYPHENYL)AMINO)METHYLENE)-, DIETHYL ESTER, (2E,4Z)-/CN

E12 1 2-PENTENEDIOIC ACID, 4-(((3,4-DICHLOROPHENYL)AMINO)METHYLENE)-, 5-METHYL ESTER/CN

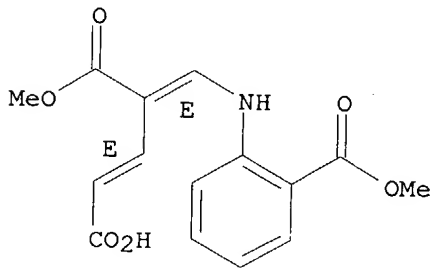
=> e4

L3 1 "2-PENTENEDIOIC ACID, 4-(((2-(METHOXYCARBONYL)PHENYL)AMINO)METHYLENE)-, 5-METHYL ESTER, (2E,4E)-"/CN

=> d 13

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 344901-55-9 REGISTRY
CN **2-Pentenedioic acid, 4-[[[2-(methoxycarbonyl)phenyl]amino]methylene]-, 5-methyl ester, (2E,4E)- (9CI)** (CA INDEX NAME)
FS STEREOSEARCH
MF C15 H15 N O6
SR Reaction Database
LC STN Files: CASREACT

Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

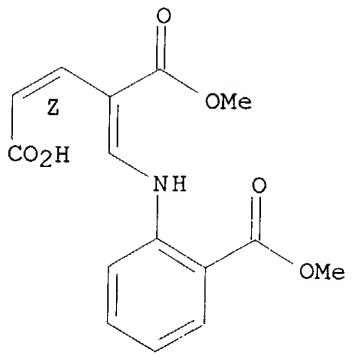
=> e5

L4 1 "2-PENTENEDIOIC ACID, 4-(((2-(METHOXYCARBONYL)PHENYL)AMINO)METHYLENE)-, 5-METHYL ESTER, (?,Z)-"/CN

=> d 14

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 89537-99-5 REGISTRY
CN **2-Pentenedioic acid, 4-[[[2-(methoxycarbonyl)phenyl]amino]methylene]-, 5-methyl ester, (?,Z)- (9CI)** (CA INDEX NAME)
FS STEREOSEARCH
MF C15 H15 N O6
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)

Double bond geometry as described by E or Z.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 15.34 | 28.72 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | 0.00 | -0.70 |

FILE 'CAPLUS' ENTERED AT 10:56:07 ON 19 NOV 2004
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FILE COVERS 1907 - 19 Nov 2004 VOL 141 ISS 22
FILE LAST UPDATED: 18 Nov 2004 (20041118/ED)

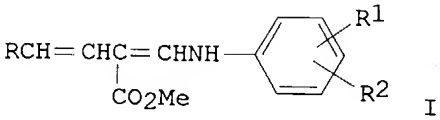
This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l4
L5 1 L4

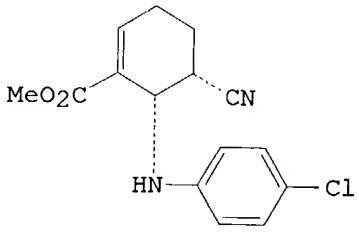
=> d l5 ti fbib abs

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
TI Chemistry of coumalic acid derivatives. I. Synthesis and Diels-Alder reactions of 1-arylamino-2-(methoxycarbonyl)butadiene

AN 1984:156297 CAPLUS
DN 100:156297
TI Chemistry of coumalic acid derivatives. I. Synthesis and Diels-Alder reactions of 1-arylamino-2-(methoxycarbonyl)butadiene
AU Kvita, Vratislav; Sauter, Hanspeter; Rihs, Grete
CS Zent. Forschungslab., Ciba-Geigy A.-G., Basel, CH-4002, Switz.
SO Helvetica Chimica Acta (1983), 66(8), 2769-77
CODEN: HCACAV; ISSN: 0018-019X
DT Journal
LA German
OS CASREACT 100:156297
GI



I



II

AB The nucleophilic attack of R1R2C6H3NH2 (R1 = 2-, 3-, 4-Cl, 3-F3C, 3-O2N, 4-MeO, 2-CO2Me, 2-CH2CO2Et, R2 = H; R1 = 2-Me, 2-, 3-Cl, R2 = Cl; R1 = 3-Cl, R2 = 5-Cl, R1 = 3-MeO, R2 = 4-MeO) at position 6 of Me coumalate cleaved the α-pyrone ring to give butadienecarboxylic acids I (R = CO2H). Some of these I were easily decarboxylated at room temperature in polar aprotic solvents to give the unisolated butadienes I (R = H, R1 = 3-, 4-Cl, 2-CO2Me, 2-CH2CO2Et, R2 = H, R1 = 2-Me, 2-, 3-Cl, R2 = 4-Cl). These underwent smooth regio- and stereospecific Diels-Alder reactions with various dienophiles to give, e.g., II, the crystal structure of which is given.

=> logoff hold

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 3.87 | 32.59 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -0.70 | -1.40 |

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:58:12 ON 19 NOV 2004